ABOUT NIT

National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, is one among the premier Institutions of India and is well known for its high standards in teaching and research. It offers 10 undergraduate and 23 postgraduate programs in disciplines spanning engineering, science, architecture and management. It has been declared as an Institute of National Importance by the Government of India under NIT Act. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed University Status with the approval of the UGC/AICTE and Govt. of India in 2003 and renamed as National Institute of Technology. According to the Ministry of Human Resources Development, NIT Tiruchirappalli retained its No.1 position among all NITs, 5th year in a row in the "India Rankings 2020" released by NIRF. NIT Tiruchirappalli moved to 9th Rank in Engineering. The Institute has signed MoUs with various Industries and Institutions both in India as well as in abroad to promote collaborative research and consultancy.

ABOUT SPARC

The Scheme for Promotion of Academic and Research Collaboration (SPARC) is a Ministry of Human Resource Development initiative that aims at improving the research ecosystem of India's Higher Educational Institutions by facilitating academic and research collaborations between Indian Institutions and the best institutions in the world. This Scheme is expected to have a major impact in providing the best international expertise to address major national problems, expose Indian academicians to the best collaborators abroad, enable international faculty to stay in India for a longer duration, provide Indian students an opportunity to work in the world class laboratories, to develop strong bilateral relationships in research, and improve the international ranking of Indian Institutes.

OBJECTIVE OF THE WORKSHOP

Objective of this workshop is to disseminate the knowledge of Side channel attack and Blockchain technology to faculty members, research scholars, UG and PG students.

Scheme for Promotion of Academic and Research Collaboration (SPARC)

Sponsored Workshop

on

Side Channel Attacks and Blockchain Technology

03/12/2024 - 07/12/2024

Organized by
Department of CSE
National Institute of Technology
Tiruchirappalli,
Tamil Nadu – 620015.

COORDINATOR
Dr. Kunwar Singh
Department of CSE,
National Institute of Technology,
Tiruchirappalli,
Tamil Nadu – 620015

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering established in the year 1983. The vision of the department is to produce Creators of Innovative Technology. The Department of Computer Science and Engineering with its cohesive team of faculty members, offers a sound program for B.Tech., M.Tech., M.S. and Ph.D. The curriculum is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. Government of India has recognized this Department as a Centre for Quality Improvement Programme in PG and Ph.D. courses.

How to Register?

Fill the Google form using the following link to complete the registration process.

https://forms.gle/3MFhSWYNbgt8MbZn6

No Registration fee for the registration

Accomodation

The participants will be provided boarding and lodging on payment basis.

For any queries, please contact

MARUTHI V-94425 22921

Gayathri V – 88072 51554

Rajeswari S - 9787887445

Email : blockchainnitt@gmail.com

COURSE CONTENT

- ➢ **Cryptographic Hash Function**
- ➢ **ECC (Elliptic curve cryptography)**
- ➢ **Digital Signature**
- ➢ **Blockchain Technology**
- ➢ **Ethereum Blockchain**
- ➢ **Side Channels Attack**
- ➢ **Threat models**
- ➢ **Acoustic Side Channels Attack**
- ➢ **Taxonomy**
- ➢ **Countermeasures**
- ➢ **Keyboard Emanations**
- ➢ **Printer Emanations**

FOREIGN EXPERT

Prof. Prof. Shishir Nagaraja,
University of Newcastle,
England,
United Kingdom.

ACADEMIC EXPERT

Dr. Kunwar Singh ,
Head of the Department/ CSE ,
NITT.

TARGET AUDIENCE

Faculties of engineering colleges, research scholars, M.Tech and B.Tech students.

Last Date for registration : 30th November 2024