



# Science and Engineering Research Board

(A statutory body under DST, Govt. of INDIA)

sponsored



Two Week Online Evening Workshop on

## INTRODUCTION TO CRYPTOLOGY

*Under Scientific Social Responsibility (SSR) Policy*

**02<sup>nd</sup> January to 13<sup>th</sup> January, 2023**

**Timings: 05:45 pm to 08:15 pm**

### **About SERB Scientific Social Responsibility (SSR) Policy:**

SERB has adopted Scientific Social Responsibility (SSR) Policy to imbibe a culture of social commitment among SERB Grantees. The policy intends to effectively utilize scientific infrastructure and expertise of SERB grantees to benefit other science and Technology stakeholders especially the less-endowed researchers and the society. SSR initiatives include infrastructure sharing, mentoring young faculty/researchers, fostering research culture among students and the academic community and public outreach and knowledge dissemination. SERB SSR policy ensures that the SSR activities are minimal and are aligned and integrated with the Grantees scientific research activities. It is expected that the combined efforts of all the SERB Grantees would lead to development of rich research culture of integrated scientific and social commitments in the country. *This workshop is organized as a part of SSR activity under the SERB funded project (File No: EEQ/2021/000305).*

### **About the Institute:**

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. NIT Tiruchirappalli retained its No. 1 position among all NITs, 7<sup>th</sup> year in a row in the "NIRF Rankings 2022" released by NIRF. 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 Department of Computer Science and Engineering:**

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.

### **About Workshop:**

Objective of this Workshop is to disseminate the knowledge of cryptology to faculty members, research scholars, UG and PG students.

### **Workshop Contents:**

- Mathematical Foundation for cryptography
- Public Key Cryptography, RSA, ElGamal Cryptosystem
- ECC
- Hash Function, Digital Signature
- RSA Signature, Schnorre Signature,
- ECDSA
- Blockchain, Bitcoin

### **Organized by**

**Dr. Kunwar Singh,**

Principal Investigator (*File No: EEQ/2021/000305*),  
Associate Professor, Department of CSE, NIT Trichy.

### **Important Guidelines:**

- Faculty members of the AICTE/UGC approved institutions, Research scholars, UG and PG students are eligible to apply for the workshop.
- Interested participants are required to register in the following link:
- [Click here: https://forms.gle/9CwLzzKRPsYW1bn29](https://forms.gle/9CwLzzKRPsYW1bn29) (press ctrl + click on the link to register)
- Last date for Registration is **29<sup>th</sup> December, 2022 (5.00 PM)**.
- **No Registration Fee**
- **Spot Registration is not allowed.**
- After verifying the credentials, final confirmation of participation will be communicated to the shortlisted participant's email-ids by **30<sup>th</sup> December, 2022**.
- Certificate of Participation will be provided only after completion of workshop to the participants.
- For Queries- Contact Numbers +91-431-2503212, and Email ID: [bsct2k19@gmail.com](mailto:bsct2k19@gmail.com)