Course Relevance

The social impact of cyber safety and security is profound, shaping how individuals, businesses, and societies interact in the digital age. Ensuring cyber safety empowers individuals by protecting their personal information, safeguarding privacy, and preventing financial loss, which fosters trust in digital services such as online banking, e-commerce, and social media. At the community level, it encourages responsible online behavior, reducing cyberbullying, harassment, and misinformation. For businesses and governments, robust cybersecurity practices prevent data breaches and cyberattacks, ensuring the continuity of services and the protection of sensitive data, which strengthens public trust in institutions.

On a broader scale, cyber safety and security contribute to national security by defending critical infrastructure—such as healthcare, transportation, and energy systems—from cyber threats. The increasing reliance on technology for communication, education, and work makes these protections essential for societal well-being. By promoting safe online environments, cyber safety helps reduce digital divides, ensuring equitable access to secure digital spaces for all demographics. Ultimately, a secure cyber ecosystem fosters innovation, economic growth, and social stability.

Course Objectives

The course will present the fundamentals and the research aspects of Cyber Safety and Security. By empowering school students with the knowledge and skills to navigate the digital world safely," Cyber Safety and Security" aims to create a society that is more resilient against cyber threats, promotes responsible digital behavior, and contributes to a secure online environment for all.

Topics to be Covered

- Cyber Safety and Security
- Cryptography
- Cyber Crime and Cyber Safety
- Intrusion Detection System
- Digital Forensic
- IoT Security using Blockchain
- Bio-metric Security, Incident Response and Digital Forensics
- Ethical Hacking and Responsible Social Media Usage
- Network Security
- Fraud Detection and avoidance

Experts & Keynote Speakers

- Vishal Kumar - Director, Cyber Education, Quick Heal
- Manoj Jaysing Waghmare - Architect Projects, Quick Heal
- Palvinder Singh - Trainer, Quick Heal
- Prof. Ajoy Kumar Khan, Professor, Mizoram University
- Dr. Susmita Mondal, Assistant Professor, IDRBT
- Prof. Ashok Kumar Turuk, NIT Rourkela
- Hemraj Saini, Professor, Dean Faculty Affairs, DITU
- Mr. Manabhanjan Pradhan, CAMS
- Dr. Rakesh Tripathi, Associate Professor, NIT Raipur

A Short-Term Course on Cyber Safety and Security

Hybrid Mode
(Online and Offline)
24th - 28th October 2024

Chairperson
Prof. Bibhudutta Sahoo

Coordinator
Dr. Ramesh Kumar Mohapatra

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING,
NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
AND
Quick Heal Academy

About NIT Rourkela

NIT Rourkela has a diversified academic program with 17 academic departments offering specialized courses at undergraduate, postgraduate and doctoral levels of studies. The Institute currently offers 21 undergraduate programs in the major disciplines of engineering, architecture, science, humanities and management, and post graduate programs in diversified fields of research areas. Today, NIT Rourkela is a highly prestigious institute with a reputation for excellence in research, consultancy and education at undergraduate, postgraduate and doctoral levels. For details about the institute please visit us at www.nitrkl.ac.in.

Tourist Places Nearby

Khandadhar Waterfall

Pitamahal Dam

Vedvyas Temple

Mandira Dam

Hanuman Vatika

About Department of Computer Science and Engineering

The department was established with the vision to prepare its students for professional employment and graduate education through study and implementation of the fundamental principles of theory, abstraction, and software design, while at the same time presenting the ethical and social issues associated with computer science.

The department offers various UG and PG programmes with the mission to o provide high-quality education that prepares the graduates for success in their professional practice and advanced studies. The department also offers M. Tech in Computer Science, Information Security, and Software Engineering; and Ph. D. for regular as well as sponsored candidates. Please visit *https://website.nitrkl.ac.in/CS/* to know more about the department of CSE.

Important Dates	
Registration Deadline	21st October 2024
Confirmation to participants by email	23rd October 2024
Commencement of Course	24th October 2024

Coordinator

Prof. Ramesh Kumar Mohapatra
Associate Professor
Department of CSE, NIT Rourkela
Email: mohapatrark@nitrkl.ac.in
Mobile no.: +91-8249061890

Target Participants

The short-term course is of immense interest for UG/ PG students, research scholars/professionals, staff/ faculty members and industry professionals working in the area of Intelligent Transportation Systems for Smart Cities. The participants having Computer Science and Engineering, Electronics and Communication Engineering, and Electrical Engineering background will be benefitted with this short-term course.

Registration Details

- The registration fee (GST 18% inclusive) for various participants for attending the short-term course is given below:
- The students/faculty members of NIT Rourkela are exempted from the payment of registration fee.

Registration Details (Fees Non-Refundable)	
Registration Type	Fees
Students	INR 600
Faculty Members	INR 1200
Scientist from R &D Organization/Industry Persons	INR 2500

Bank Account Details for Registration

Account Name	CONTINUING EDUCATION NIT ROURKELA
Account No.	10138951784
Bank	State Bank of India
Branch	NIT Campus Rourkela (02109)
IFS Code	SBIN0002109

Registration Form:

To complete online registration, the participants need to fill the following google form:

https://forms.gle/iBATSzcKLF3Zg6r16

E-certificates *will be provided to the registered participants upon successfully completing the course.*

Contact and Queries: *Please send your queries directly to the course coordinators.*