Electronics & ICT Academy
IIT Roorkee

An Initiative of
Ministry of Electronics & Information Technology (MeitY)
Government of India

Joint Faculty Development Program
on

Cyber security (Dark Web)

Joint
Faculty Development Programme
In association with

Jan 20 – Jan 31, 2025

Saturday and Sunday
9:00–11:00 AM & 4:00–6:00 PM

Register Before: Jan 15, 2025

Mode of Delivery is Online

Objectives of the course

- To provide an in-depth understanding of cybersecurity principles and their applications across various domains, including web, network, and software security.
- To equip participants with knowledge of cryptographic techniques and their importance in ensuring data confidentiality, integrity, and authentication.
- To familiarize participants with analysis and mitigation strategies for various cyberattacks using hands-on practices.
- To explore the integration of AI and ML techniques for enhancing cybersecurity measures and threat detection.

About E&ICT Academy

Electronics and ICT Academy is an initiative of Ministry of Electronics & Information Technology (MeitY), Govt. of India for conducting various Faculty/ Research Scholar Development Programme. Academy has planned short-term training programs on fundamental and advanced topics in IT, Electronics & Communication, Product Design, and Manufacturing with hands-on training and project work using the latest software tools and systems. In addition, the Academy will conduct specialized/customized training programs and research promotion workshops for corporate sector & educational institutions.
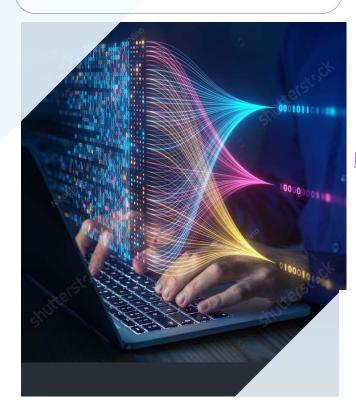
Focus Areas

- Overview of Cybersecurity and Security Fundamentals
- Cryptography and Its Importance in Cybersecurity
- Hands-On Attack Analysis: DNS Scanning, Port Scanning, Phishing, Command Injection, SQL Injection, XSS
- Web Security: SQL Injection, XSS, CSRF, Web App Penetration Testing

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Prerequisites

No experience is required, but fundamental knowledge of any programming language would be helpful.

Course Outcomes

- Understand the core principles of cybersecurity and the role of cryptography in protecting data.
- Analyze and mitigate various cyberattacks using hands-on approaches and cybersecurity tools.
- Apply AI and ML techniques to detect and respond to cybersecurity threats.
- Perform web application penetration testing and assess vulnerabilities in cloud environments.
- Implement IoT and blockchain-based security mechanisms for emerging technologies.
- Utilize industry-standard security tools for vulnerability scanning, threat detection, and system hardening.

Experts from Academia/Industry

Who Should Register?

Any Interested Faculty/PhD-Scholars UG/PG/ & Industry Persons can register

Registration Fee

Fees: ₹ 500/- Faculty/Research Scholar
Note: Registration Fee is Refundable if the cancellation request is submitted before the last date of registration.

FDP Kits & Refreshment will be provided

How to make Payment

Please make the payment first using the below link upload the payment receipt when filling out the Google registration form

https://eict.iitr.ac.in/instruction-for-payment/

Conference Code: EICTIITR-FDP-25-22

Registration Link

https://forms.gle/dUT3XbdXmM6UX7GUA

Scan QR for registration

Register before: Jan 15, 2025

Click to follow us on:

Resourse Person

- Dr. Mayank Swarnkar (IIT BHU)
- Dr. Mayank Agrawal (IIT Patna)
- Dr. Neelam Dayal (IIITDM Jabalpur)
- Dr. Ramesh B. Battula, MNNIT Jaipur
- Dr. Emmanuel S. Pilli

Principal Coordinator

Prof. M P Singh
NIT Patna

Joint Principal Coordinators

- Prof. Sanjeev Manhas , IIT Roorkee
- Prof. Neetesh Kumar
- Dr. Ramesh B. Battula, MNIT Jaipur
- Dr Neelam Dayal, IIITDM Jabaplur
- Dr. Srinivasan Krishnaswamy, IIT Guwahati
- Dr. Shyam Sungh Rajput, NIT Patna

Reach Us :

M.No.: 8112766397

Landline No.: +91-1332286457

Email: eict@iitr.ac.in