

Electronics & ICT Academy IIT Roorkee



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

A Faculty Development Program

Digital Forensics for Innovators: Leveraging Open Source in Cyber Investigations

In association with

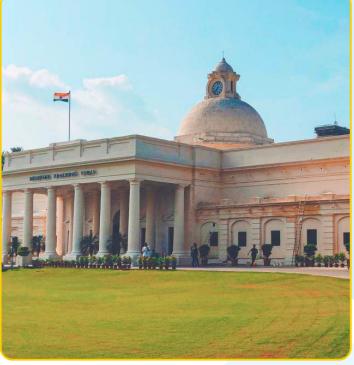
Chitkara University, Himachal Pradesh



Feb 17 - Feb 28, 2025 (04:00 PM to 08:00 PM)

Register Before: Feb 15, 2025

Venue: Hybrid Mode at Chitkara University, Himachal Pradesh



Why this course?

The "Digital Forensics for Innovators: Leveraging Open Source in Cyber Investigations" FDP equips professionals with cutting-edge cybersecurity skills. With rising cyber threats, mastering ethical hacking, forensic tools, and malware analysis is crucial. This program provides hands-on experience in penetration testing, bug bounty hunting, and darknet investigations. Led by experts, it offers practical exposure to Metasploit, image forensics, and cybercrime scene analysis, empowering participants to tackle real-world security challenges with open-source tools.

Prerequisites

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

Objectives of the course

The broad objectives of the course are:

- To provide foundational and advanced knowledge in cybersecurity and digital forensics
- To equip participants with hands-on experience in open-source forensic tools
- To develop expertise in penetration testing, ethical hacking, and vulnerability assessments
- To introduce bug bounty methodologies and cybercrime investigation techniques
- To enhance participants' understanding of Metasploit and malware analysis
- To enable professionals to analyze and investigate cyber threats effectively

Focus Areas

- Ethical hacking and cybersecurity fundamentals
- Open-source digital forensic tools and techniques
- Bug bounty hunting and real-world exploit analysis
- Darknet investigation and OSINT (Open-Source Intelligence) techniques
- Malware reverse engineering and advanced forensic methodologies
- Video and image forensics, tampering, and authenticity analysis

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

Course Outcomes

- Participants will gain expertise in ethical hacking and penetration testing.
- Ability to use open-source forensic tools for cyber investigations.
- Enhanced skills in bug bounty hunting and vulnerability exploitation.
- Practical knowledge of analyzing the darknet and investigating cyber threats.
- Proficiency in malware analysis and reverse engineering.
- Competence in handling cybercrime scene investigations and forensic reporting.
- Understanding of image and video forensic techniques for digital evidence validation.



Experts from Academia/Industry

Who Should Register?

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

Registration Fee

Fees: ₹ 250/- Faculty/Research Scholar/ Students ₹ 500/- Industry/Others

Note: Refund will be done in case of course cancellation only, with in 20 working days

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-25-33

Registration Link

https://forms.gle/pDV7SLmr6KmZZVoz6



Scan QR for registration

Register before: Feb 15, 2025

Click to follow us on:







Who may benifits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Industry and Startups.
- Reasearch Scientists and Technical Staff.



This certificate can be considered in alignment with other Quality Improvement Programs (QIP) as well as NBA and NAAC for recognition/credit.

Principal Investigator

Prof. Sanjeev Manhas ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Dr. Abhishek, Associate Professor (CSE), Chitkara University, Himachal Pradesh

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