

## Electronics & ICT Academy IIT Roorkee



सत्यमेव जयते

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

### A Faculty Development Program on

## 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

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## Who may benefits

- 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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