शिक्षा मंत्रालय
MINISTRY OF EDUCATION
सत्यमेव जयते
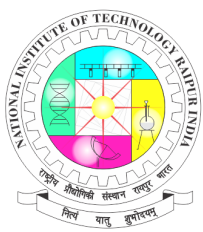
DEVELOPED INDIA MISSION
1947 TO 2047

विकसित भारत अभियान
1947 TO 2047

आज़ादी का अमृत महोत्सव

G20
भारत 2023 INDIA

Five-day Bootcamp on Ethical Hacking & Digital Forensics

Organized by

Department of Computer Science & Engineering

National Institute of Technology Raipur

10th - 14th June, 2024

ABOUT EHDF

This course is aimed at training cybersecurity enthuthiasts in identifying and reporting the findings, especially those related to security, vulnerabilities, exploits and digital forensics results in a legal and ethical manner. The course allows one to upscale and pursue a career in challenging, adventurous and rewarding field of Cyber Security & Digital Forensics. The proposed program is an instructor-led program, which aims to provide knowledge of real-world scenarios with hands-on experience on case studies to develop potential forensic skills. The course delves into the concepts of forensic investigation, security, OSINT tools, volatility framework, autopsy, scalpel, Nmap, DNS pharming, Hydra, Metasploit Framework, DoS attack, hashcat, etc., that are essential to become an advanced cybersecurity professional. The proposed program is designed to equip students and professionals aspiring to start a technical career in cyber security. This is a technical skilling program, essential to launch a professional career in the exciting domain of Cyber Security and Digital Forensics.

ABOUT NIT RAIPUR

National Institute of Technology Raipur (An Autonomous institute of National Importance) fully funded by the Govt. of India. NIT Raipur is located in Raipur, the Capital City of Chhattisgarh State and spread over an area of approx. 100 acres. The institute is 5 km from Raipur railway station and 14 km from airport on NH-6, the Great Eastern Road. NIT Raipur has proven to be "avant-grade" in the field of science and technology over the past few decades in this region. NIT Raipur is ranked 70th in engineering category in India by the NIRF, and it is the highest ranked engineering college in Chhattisgarh. Presently NIT Raipur offers 12 undergraduate, 14 Postgraduate (including M.Sc., M.C.A and M.Tech. in Applied Geology) and 18 Ph.D. programs. The institute offers facilities for research and also undertakes R & D activities, provides testing, consultancy and other extension services including continuing education to the industry through the Industry Institute Interaction cell and the placement of the student through the Department of Training & Placement. The students have brought laurels to the institute and are very well placed in Government organization, Public and Private Sectors, Multinational Companies, Universities, research organizations in India and abroad. More details about NIT Raipur are at: **http://www.nitrr.ac.in**

OUTCOMES OF THE COURSE

- ✓ Understanding of basic concepts of cyber and information security
- ✓ Ability to identify and respond to security incidents
- ✓ Demonstration of the Vulnerability Analysis and Penetration Testing (VAPT) including their countermeasures
- ✓ Understanding of forensics and anti-forensics techniques
- ✓ Demonstration of forensic approaches to Microsoft Windows and Linux artifacts.
- ✓ Analyze different disk drives and file systems used in different operating systems
- ✓ Developing skill set for entry-level positions as a digital forensic investigator

ELIGIBILITY CRITERIA FOR PARTICIPATION

- ✓ UG/PG graduated/pursuing (final/pre-final year) students seeking cyber security skills
- ✓ Ph.D. Scholars from higher education institutions
- ✓ Faculties / Staffs / Lab Instructors from technical and academic institutions
- ✓ Govt. Employees or Industry/working professionals seeking cyber security skills
- ✓ Any other Cyber Security enthusiasts

REGISTRATION DETAILS

Registration Link:

https://forms.gle/jpH9j9JTw6eCmX818

or

Scan QR for Submitting Registration Form

COURSE CONTENTS

- Basics of Cyber Security
- Basics of Networking
- Cryptography and Hashing Techniques
- Vulnerability Analysis Process, Tools and Techniques
- Overview of Malicious Software
- Access Control Mechanism
- Digital Forensics: Process, Tools & Techniques and Research Challenges
- Understanding Hard Disks and File Systems (NTFS, FAT, Ext4, etc.)
- Data Acquisition: Imaging and Cloning
- File Systems Analysis using TSK
- Windows Forensics
- Anti-forensics and Anti-anti-forensics
- Volatile Memory Forensics
- Metasploit Framework
- Internet of Things (IoT) Forensics
- Email and DRONE Forensics
- Password Recovery Tools & Techniques
- Mobile Forensics
- App Forensics

COURSE TIMELINE & REGISTRATION

Registration Last Date:	**15th May, 2024**
List of shortlisted Candidates:	**17th May 2024**
Fee Payment Duration:	**17th to 22nd May, 2024**
Course Start Date:	**10th June, 2024**
Course End Date:	**14th June, 2024**
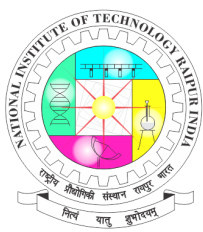
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CHIEF PATRON

Prof. N.V. Ramana Rao, Director, NITRR

PATRON

Dr. Prabhat Diwan, Dean (R&C), NITRR

CHAIRMAN

Dr. Pradeep Singh, HoD, Department of CSE

ADVISORY COMMITTEE

Prof. Naresh K Nagwani, Department of CSE

Dr. Dilip Singh Sisodia, Department of CSE

CO-ORDINATORS CONTACT DETAILS

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   Email: sktripahi.cse@nitrr.ac.in
   Mobile No.: +91-9993364581

SPEAKERS

Subject experts of Cyber Security & Digital Forensics may be from IIT, NIT, IIIT, NFSU, CDAC, DRDO and Industry.

NUMBER OF PARTICIPANTS

The number of participants in the couse is limited. Preference will be given to the candidates who have background in the field of Cyber Security or Digital Forensics, on first come

CERTIFICATE

Certificate will be provided to all the participants at the end of bootcamp.

ACCOUNT DETAILS

Account Name: National Institute of Technology, Raipur
Account No.: 380278633250
Bank Name: State Bank of India
Bank Branch: NIT Branch
IFSC Code: SBIN0002852

REGISTRATION PROCESS

Nomination

> **Submit the online registration form**
> https://forms.gle/jpH9j9JTw6eCmX818
> 1. **Fill the required basic details**
> 2. **Upload valid ID proof (Aadhar/Driving License/ Voter ID/Passport/Employee ID Card**
> 3. **Upload proof of qualifying degree/course.**
> 4. **Upload soft copy of passport photograph**
> 5. **Submit the form.**

Registration Confirmation

> 1. **After verification confirmation email and guidelines will be sent to the shortlisted candidates on 02 May. 2024**
> 2. **The shortlisted candidates need to pay the course fee including GST on or before 10 May, 2024**
> 3. **Email fee receipt to the coordinators.**

FEE STRUCTURE

S. No.	Particulars	NITRR Students	External Students / NITRR Staff	Industry/Faculties and Staff from Education Institution/Govt. Employees
1	**Course Fee**	INR 3000/- + 18% GST (INR 3540/-)	INR 4000/- + 18%GST (INR 4720/-)	INR 5000 + 18% GST (INR 5900/-)
2	**Accommodation Charges Extra (Subject to availability in hostel)/ (Optional)**	No TA/DA will be provided for attending the course.		
3	**Food Charges Extra (Optional)**	NA	On Payment Basis (INR 250/- per day)	