



Techniche

The annual Techno-Management Festival
IIT Guwahati

Internship & Training Program

Ethical Hacking & Cyber Security



Certification 2-8 Weeks / 30-40 Hours

Industry ready exhaustive program

Internship & Training Program

Make Projects & Get Trained

Official Partner



EduVitae
Services
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MSME
मूक्य, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES



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About EduVitae Services

EduVitae Services, run by IITians & industry experts, is a renowned provider of education, training, research and development programs, with a large presence. We offer a wide range of specific industry ready courses and training opportunities in the areas of computer science and IT, animation and multimedia, as well as engineering, management and advanced technology. Our programs include workshops, training, internships, hackathons, corporate training, certificate courses, placement training, research, and development programs, all designed to meet the needs of students, professionals, academic institutions, and industry. Our reputation as one of the best technology training providers, is a testament to our commitment to helping our students and clients acquire the skills and knowledge they need to succeed in their careers and goals.

Our Clientele/Collaborations

Top private & government academic institutions, college's fests and corporates where directly/indirectly our presence have been felt:

Indian Institute of Technology, Kanpur
Indian Institute of Technology (Banaras Hindu University), Varanasi
Indian Institute of Technology (ISM), Dhanbad
Indian Institute of Technology, Jodhpur
Indian Institute of Technology, Bhubaneswar
Blithchron, Indian Institute of Technology, Gandhinagar
Indian Institute of Technology, Guwahati
Indian Institute of Technology, Patna
Indian Institute of Management (IIM), Lucknow
Indian Institute of Management (IIM), Indore
National Institute of Technology, Surat
National Institute of Technology, Bhopal
National Institute of Technology, Warangal
National Institute of Technology, Trichy
Chandigarh University
DIC, Department of Applied Arts (Visual Arts), Banaras Hindu University, Varanasi
Madan Mohan Malaviya University of Technology, MMMUT Gorakhpur
Maharaja Agrasen Institute of Technology, Delhi
Thapar Institute of Engineering & Technology, Punjab
Assam Engineering College, Assam
Jaypee University of Engineering & Technology
Shillong College, Meghalaya
SRCC, Delhi University
Kendriya Vidyalaya, India
DAV School, India
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Industry/Corporate/Startups/Government

MapsCrew

Rabbixel

CreativeHatti

Accenture

Capgemini

F1 Digitals

TIH IIT Roorkee, DST, Govt. of India

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and many more tech & non-tech colleges/universities/institutes/schools & organizations/startups/companies across India and globe.

Achievements & Milestones

- ✓ Our alumni / students are working in top notch company of India & MNCs **VMware, Infosys, Cognizant, CGI, Fidelity, Razorpay, EXL, CARS24, Tata Steel, NVIDIA, MyKaarma, Oyo Rooms, Samsung, Walmart Labs, L&T, JIO, Citibank, TCS, Accolite, BNY Mellon**, and many more.
- ✓ Conducted a number of workshop/training/internship programs in many colleges/universities/schools like **IITs, IIMs, NITs, IISc** & other prestigious institutions of India & with the corporates too.
- ✓ Trained many college/university/school students, some of them have created a milestone for **EduVitae Services** by meeting with **Shri Narendra Damodardas Modi** (Prime Minister of India) related to some **robotics projects**.
- ✓ Collaborating with Industries / Corporates / Startups to provide them hiring services (helping them to hire fresh trained talent with us).
- ✓ Signed MOUs / worked with top notch colleges / universities / schools / organizations like **Techkriti IIT Kanpur, Technex IIT (BHU) Varanasi, Wissenaire IIT Bhubaneswar, Techniche IIT Guwahati, Concetto IIT (ISM) Dhanbad, Pravega IISc Bangalore, IGNUM IIT Jodhpur, Ranbhoomi IIM Indore, IIM Lucknow, MMMUT GKP, NIT Surat, NIT Bhopal, NIT Warangal, NIT Trichy, Chandigarh University, Thapar University, SRCC DU, KMC DU, TIH IIT Roorkee DST Govt. of India** and many other academic institutions for professional / industry ready & learning skills training / workshop / internship programs.

Prerequisites

Participants from 1st year/ 2nd year / 3rd year / 4th year of CSE/IT/MCA/BCA/MSc/BSc-IT/ECE/EE/Other branch/stream will get more benefit after joining this program and other interested students / learners can also participate in that as per their requirement.

What is required before joining this training program?

Here's the checklist

1. A laptop with Microsoft Windows (7 or later) configuration along with smartphone as per need/requirement.
2. Laptop Charger/Adapter for charging purpose.
3. USB Mouse for designing purpose (if required).
4. Internet Connectivity (Typically to be able to do video call / conferencing, if the program is in online mode)
5. Notepad & Pen/Pencil for important notes and most important your interest & dedication.

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Training Deliverables & Takeaways

Every participant will get

- ✓ Industry Ready Curriculum
- ✓ Interactive & Doubt Session
- ✓ Certification Program
- ✓ Mini & Major Projects
- ✓ Career Guidance
- ✓ Projects/Practical Based Learning

Course & Content

All of the sessions will be theoretical & practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

Ethical Hacking & Cyber Security

Brief Introduction About Course:

- The Course is specifically design in a way that even a non-technical person can look for future scope in ethical hacking
- During it's initiation we will go from scratch and soon you will be good enough to touch skies.
- As an ethical hacker there are some norms and procedure which are necessary to follow and that's what makes a hacker the ethical hacker, so our role starts from there.
- We have a bundle of hands on work to do along with that we will make sure you know what are the different roles and ethical hacker plays at job.

Module 1: Introduction to Ethical Hacking [4 hours]

Session #1

Ethical Hacking Overviews

- Hacking concept, what is hacking?
- Terms we use in hacking.
- Need of Ethical hacking.
- Cases of Hacking in India & across the globe

Session #2

Principles of Ethical hacking

- Basic Principle
- Commandments of Ethical Hacking

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Session #3

Hacking Methodologies

- Types of Hacking.
- Building the foundation for Ethical hacking
- Hacking Phases

Session #4

Role of Ethical Hacker

- Types of Hackers
- Roles and Responsibilities
- Introduction of Red team, Blue Team, White team and Black team.

Session #5

Scope & limitations of hacking.

- Advantages & scope for hacking
- Drawbacks & Limitation of hacking
- Universal Laws applicable
- Job responsibility allocated

Assignment Quiz-1

Project 1: Creating a report on the methodologies of hacking

Module 2: Methodologies and Tools

Section#6: Hacking tools and techniques

- Common Hacking Tools [Command prompt, Python powershell, nmap, etc.]
- Hacking Techniques & Approaches Policies and Controls [network, mobile, over system, Cryptography etc.]

Section#7: Overview of PT / VA.

- Concept of Penetration testing
- Types of Penetration testing
- Phases of Penetration testing
- Vulnerability Assessment by Penetration testing

Section#8: Malware Overviews

- Introduction to Malware.
- Different Ways a Malware Can Get into a System.
- Common Techniques Attackers Use to Distribute Malware on the Web
- Components of Malware

Section#9: Virus Worm & Trojan Concepts

- Introduction to Viruses, Worms & Trojan

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- Types of Viruses, Worms & Trojan
- Fake Antiviruses
- How Did Antivirus Works.

Assignment 2: Quiz 1

Project 2: create at list 3 malware and report them.

Module 3: Foot printing and Reconnaissance Cycle [8hr]

Section#13: Stage 1 of a hack: Foot printing

- Google Hacking and Google Dorking
- Open-Source Intelligence: OSINT
- (Gathering Information)

Stage2 of hack: Enumeration

Stage3 of hack: Scanning

- ping, hping3, nmap
- Scan types and their results: SYN, TCP, ACK, FIN etc.
- Malte go and other delights

Assignment3: Reconnaissance, Scanning and Enumeration Lab Assignment

Quiz3: Scanning and Enumeration

Section#14: Stage4 of hack: Sniffing

- Techniques for Enumeration, Services and Ports to Enumerate
- NetBIOS, SNMP, LDAP Enumeration
- Information Gathering Using Groups, Forums, and Blogs.

Stage4 of hack: Social Engineering

- Social Engineering Concepts
- Social Engineering Techniques
- Insider Threat / Insider Attack.
- Social Engineering Countermeasures

Assignment4: Client-side Exploitation and Social Engineering Lab Assignment

Assignment Quiz4: Social Engineering and APT

Module 4: SQL Injection, DOS Attacks, Session hijacking and System hacking [12hours]

Section#15: SQL Injection

- Basics to the SQL queries

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- How Injection Can be done
- Cross Site Scripting Attacks

Section#16: DOS Attacks

- DoS/DDoS Attack Techniques.
- DDoS Case Study
- DoS/DDoS Attack Tools

Section#17: Session Hijacking

- Session Hijacking Concepts,
- Network Level Session Hijacking
- Client-side Hijacking.

Section18: System Hacking

- System Hacking Concepts
- Cracking Passwords
- Escalating Privileges
- Hiding Files and Covering tracks

Assignment5: Penetration Test Report Assignment

Assignment Quiz5: Wireless and Physical Exploitation

Module 5: Malware Analysis

- Introduction to Malware Analysis
- Malware Analysis Procedure
- Malware Detection Method

Assignment 6: Presentation on any of the above topic

Practical Lab:

1. Conduct detailed reconnaissance using document metadata, search engines, and other publicly available information sources to build a technical and organizational understanding of the target environment.
2. Network scanning techniques and scanning countermeasures
3. System hacking methodology, steganography, steganalysis attacks, and covering tracks
4. Different types of Trojans, Trojan analysis, and Trojan countermeasures
5. Working of viruses, virus analysis, computer worms, malware analysis procedure, and countermeasures
6. Packet sniffing techniques and how to defend against sniffing
7. Social Engineering techniques, identify theft, and social engineering countermeasures
8. Presentation on DoS/DDoS attack techniques, botnets, DDoS attack tools, and DoS/DDoS countermeasures

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- Using tools for Various types of penetration testing, security audit, vulnerability assessment, and penetration testing roadmap

Assignment: Make a report using any of the above forensic tool on a vulnerable site using the above pen testing tool what are the vulnerability in it.

Final Test:

- Quiz 1: Theoretical Quiz**
- Quiz 2: Practical Quiz**
- Analysis report on file applying above techniques as per questions asked.**

Disclaimer

Please make sure that this training/internship will be organized by EduVitae Services, it is to note that if any IIT/NIT/IIM/IISC/Private/Government organization is EVS partner then they are responsible for providing certification to attending students/professionals, marketing, publicity and rest operations, scheduling, payment processing, training, content development etc. will be taken care by EduVitae Services.

All of the matters/disputes related to internship/training/workshop needs to be addressed to EduVitae Services team only. See our terms and conditions on www.eduvitae.co.in and fees once paid is non-refundable and non-transferrable. Company reserves full right to withdraw any offer/discount anytime without any prior notification, also it's important to understand that center & batches date of internship/training can be changed as per requirements & situations.

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