



An IIT Alumnus Platform

# Cybersecurity & Ethical Hacking Program

Join the Elite Cyber Program. From Zero to Cyber Hero in Just 3 to 6 Months. Train with Real Projects, Internship, & Industry Experts.

Job Oriented Program



<https://olewinacademy.com/>



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Olewin  
Academy

An IIT Alumni Initiative

2026

## Powered by: IIT Alumni + Partner Companies + Real- Time Internship

Industry-Grade Cyber Security & Ethical Hacking Program

- with IIT Mentorship & Real Internships on Live Company Projects
- Get Certified, Defend Real Systems, and Launch Your Cybersecurity Career Before You Graduate
- Weekly mentorship sessions by IIT Kharagpur & QKD Specialist
- 1:1 security project reviews, exploit debugging, and vulnerability report walkthroughs
- Designed for students, graduates, and professionals aiming for top global roles

Limited Intake Only

Registration form

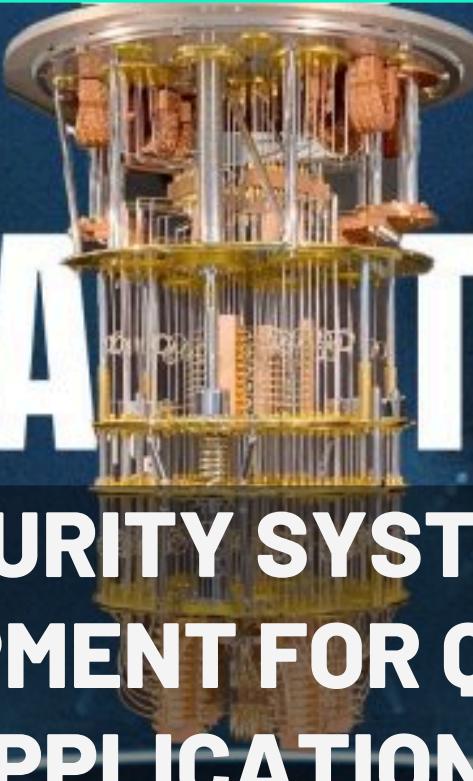
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UpR8](https://forms.gle/RmeD5ADzmxvAuUpR8)

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# QUANTUM

## SECURITY SYSTEMS DEVELOPMENT FOR QUANTUM APPLICATIONS

3 Months

6 Months

### Program Highlights

- Industry-Level Curriculum
- Real-Time Company Internship & Project
- Hands-on with 100+ Modern Security Tools
- Job-Ready in 3 to 6 Months
- 100+ Job Role Eligibility
- Global Certifications Aligned
- Real Time Company Project for Each Duration
- Certificate + LOR + Project Documentation



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# About Program

- **Why Cyber Security & Ethical Hacking Is Critical Today**



In a world where cyberattacks happen every 39 seconds and data breaches cost companies millions, cybersecurity is no longer optional – it's a survival necessity. Every digital system, from banking to healthcare, is a target. Ethical hackers and cyber defenders are the frontline protectors of global infrastructure, user privacy, and business continuity.

- **Future Scope & Global Demand (2026–2028)**
  - Over 3.5 million cybersecurity jobs will remain unfilled globally by 2026
  - Roles like Cyber Security Engineer, Penetration Tester, Cloud Security Analyst, and SOC Specialist are among the top 10 highest-paying tech jobs worldwide
  - AI, IoT, and Cloud have introduced new attack surfaces, creating a massive need for skilled professionals who understand both hacking techniques and advanced defense mechanisms
  - Governments, defense, startups, and Fortune 500 companies are aggressively hiring ethical hackers to secure national assets, intellectual property, and user data

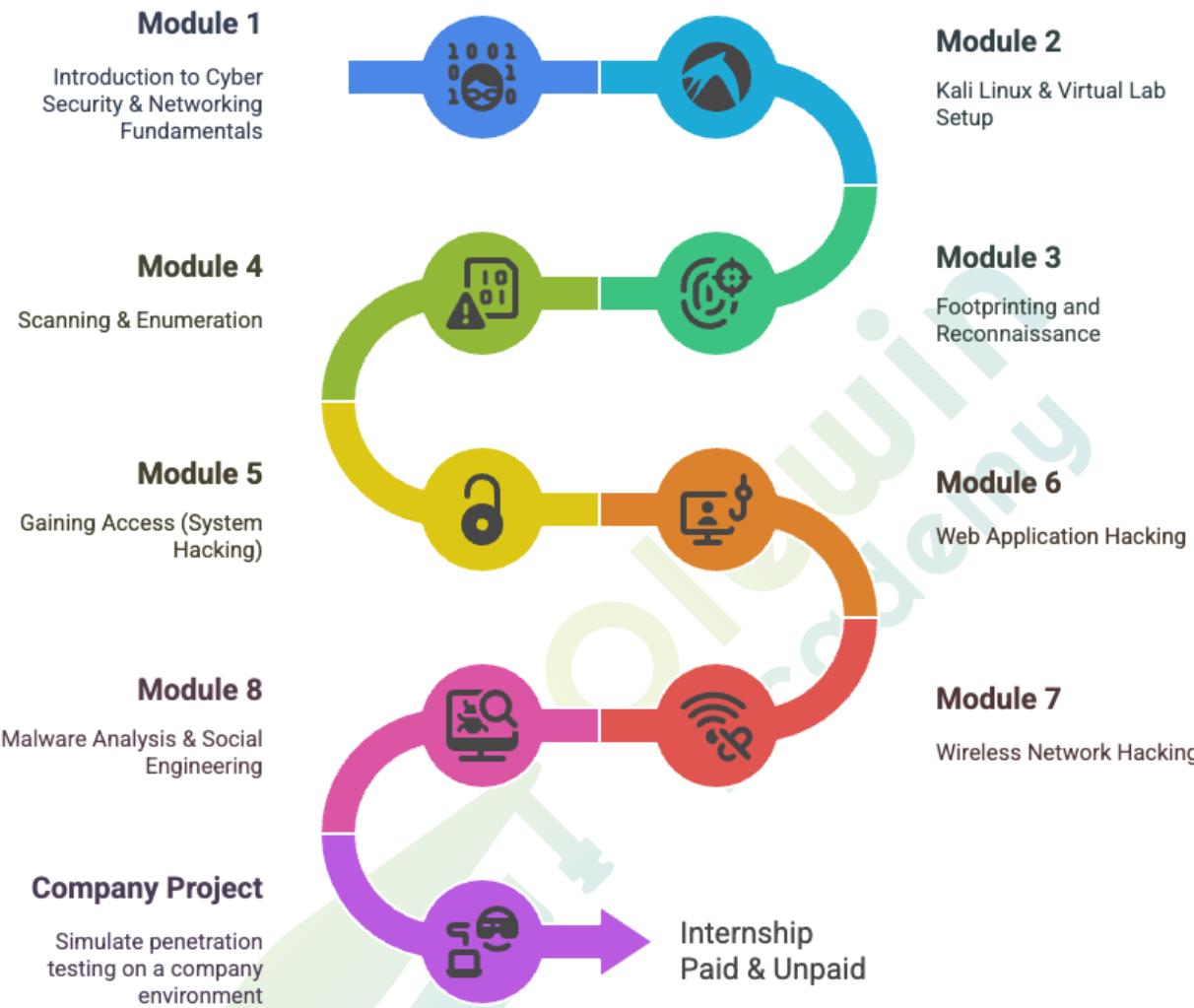


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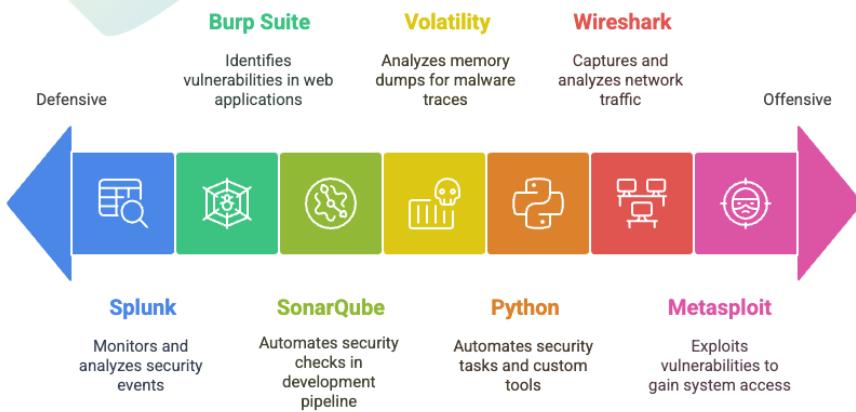
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## Journey Through Ethical Hacking & Cyber Defense

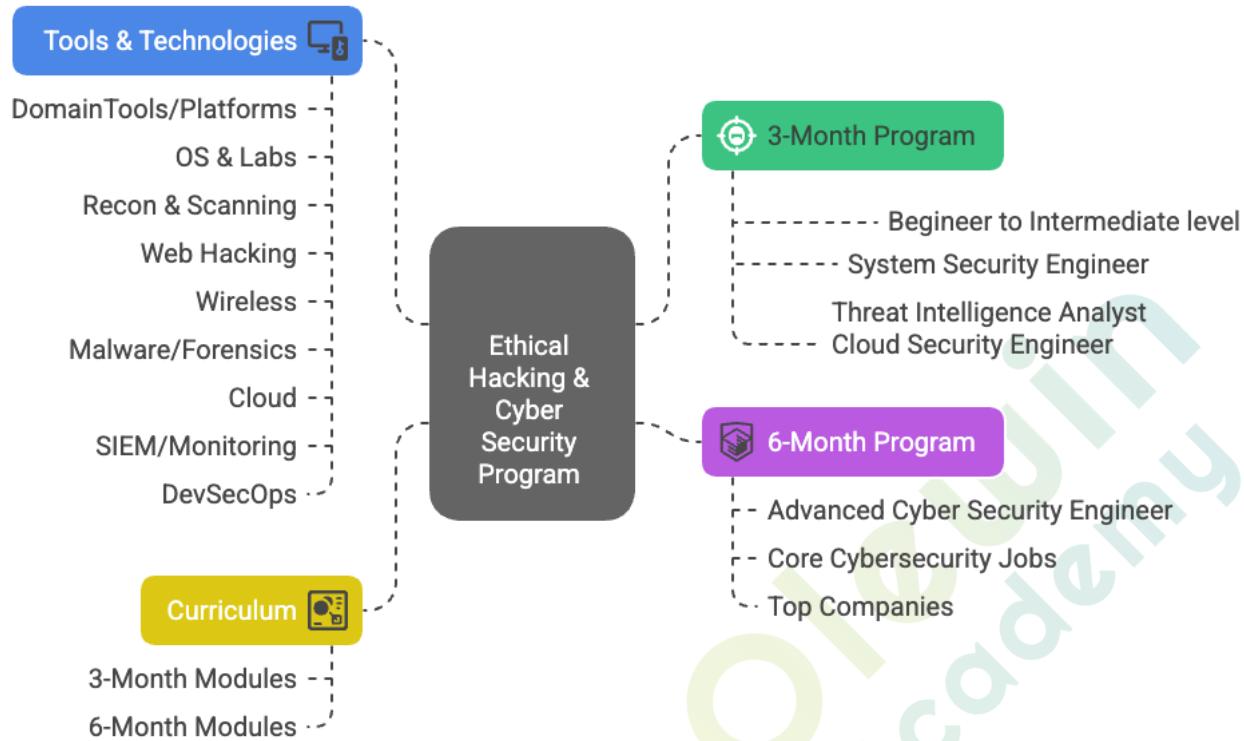


Categorizing security tools based on their offensive or defensive nature.



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## Real-World Project: - Developed and delivered as part of a live, industry-grade training initiative.

- **Expert-Led Sessions:** Taught by cybersecurity engineers, quantum computing researchers, and energy sector professionals.
- **Quantum-Safe Architecture:** Focused on designing quantum-resilient cybersecurity frameworks for critical energy systems.
- **Geo-Energy Integration:** Applies real-time data from geophysics, geology, and remote sensing for system intelligence.
- **Live Data Simulation:** Students work with simulated field data from seismic networks, environmental sensors, and SCADA systems.
- **Hands-On Tools:** Uses tools like Qiskit, Metasploit, ELK Stack, and proprietary AI threat models for secure infrastructure.
- **Job-Ready Outcomes:** Builds high-demand skills for roles in energy cybersecurity, quantum-secure systems, and geointelligence defense.



# Curriculum

## 3-MONTH PROGRAM

### Cybersecurity & Ethical Hacking Foundation Program

#### Modules:-

- Foundations of Cybersecurity & Networking
- OSI model, Firewalls, VPN, Proxy
- TCP/IP and network traffic monitoring
- Kali Linux, Virtualization, and Lab Setup
- VirtualBox, VMware, Offensive OS setup
- Reconnaissance & Vulnerability Scanning
- Nmap, Shodan, Nessus, OpenVAS
- System Hacking & Exploitation
- Password attacks, privilege escalation
- Web & Application Security
- OWASP Top 10, Burp Suite, DVWA
- Wireless Hacking
- Aircrack-ng, WPA2 attacks
- Social Engineering & Phishing
- Email payloads, tools like SET
- Malware Basics & Endpoint Security
- Antivirus evasion, sandbox analysis

**Simulate a penetration test on a fintech or e-commerce dummy environment. Deliverable includes risk report + exploit demos.**



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# Curriculum



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## 6-MONTH PROGRAM

### Advanced Cyber Security Engineering Program

Includes everything in 3-Month + Advanced Specializations:

#### Modules:-

- Python for Cybersecurity
- Custom scripts for port scanning, web fuzzing
- Red Team vs Blue Team Simulation
- Offensive (Red Team): Simulated APTs, malware delivery
- Defensive (Blue Team): Monitoring & log analysis
- Digital Forensics & Incident Response
- Volatility, Autopsy, disk and memory forensics
- Cloud Security (AWS, Azure)
- IAM, KMS, access control, security groups
- DevSecOps & Secure SDLC
- Static and dynamic code analysis
- SonarQube, CodeQL, GitHub Actions security
- SIEM, Threat Intelligence & Monitoring
- Splunk, ELK Stack, log correlation, SOC setup
- API & Mobile Security
- Postman, API pentesting, APK reverse engineering
- Global Compliance Frameworks
- GDPR, ISO 27001, NIST, HIPAA basics

Limited &  
Selected  
Students  
only.

#### Internship:

60-90 days Paid internship with real-time exposure



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# About the Real-Time Project

**Geo-Intelli-Q is a quantum-secured cybersecurity and data intelligence project for real-time geophysical and energy infrastructure protection.**

It integrates advanced geoscience models, real-time data analytics, and quantum-safe encryption to safeguard critical assets in the energy sector.

<https://geointelli-q.web.app/>



As part of the program, learners will work on a real-time cybersecurity project focused on developing next-generation secure infrastructure for the energy sector, integrating quantum computing algorithms and advanced security models. This project involves designing a quantum-resilient architecture capable of safeguarding critical infrastructure such as oil fields, power grids, and smart energy systems, which rely heavily on data from geological and geophysical sensors. Participants will build models that monitor and analyze real-time seismic, geospatial, and environmental data using encrypted channels and AI-driven anomaly detection. The project combines multi-layer threat defense, quantum key distribution (QKD), and secure SCADA communications to ensure data integrity and prevent cyber-physical attacks on national energy assets. This hands-on experience will empower learners to contribute to global energy security, cyber resilience, and digital sustainability.



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Technology Company

# WE ARE HIRING

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## Open Positions :-

- AI & ML Engineer
- Ai Agents & LLM's Developer
- Administration staff
- Cyber Security & System Security Engineer
- Marketing & Business Consultant
- Business Analyst
- Full Stack AI Web 3.0 Developer
- Mobile App Developer (Android & iOS (D-Apps)
- GeoScientist (Geology & GeoPhysics)
- Energy Sector Engineer
- Data analyst & Data science
- Geo-Technical Engineer
- Environmental Data Engineer (AI)
- Blockchain Developer
- Senior Software Engineer (SDE-II)
- And More.



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# COMPANY PROFILE



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AN IIT ALUMNUS PLATFORM

Empowering learners globally with quality education  
and training content for new approach to learning  
paradigms

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