



# ETHICAL HACKING

## About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

## We Provide

- ✓ **Scholarship for Students**
- ✓ **Education Loan**
- ✓ **Life time Placement Support**
- ✓ **Online and Offline Classes**
- ✓ **Life time Access to course Materials**

Call us for  
more info



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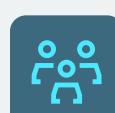
### Industrial Experts

We have industrial experts to teach you our courses.



### 100% Genuine Placements

We offer 100% placement support.



### Interview Assistance

We offer interview preparation assistance with industry experts.



### Collage Project Assistance

We provide college final year project assistance.



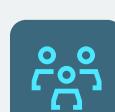
### Aptitude Practice Sessions

We offer aptitude sessions for comprehensive skill development.



### English Training

We provide English training for effective language proficiency.



### Soft Skill Sessions

We offer soft skill sessions for holistic professional development.



# ETHICAL HACKING



## Who Should Join This Course

- Programmers aspiring to become Java full-stack developers
- Tech enthusiasts diving into comprehensive web development.
- Professionals expanding skills across Java-based full-stack applications.

## Course Details

**Duration:** 6-8 Months

**6 Modules**

**Unlimited Lab Access**

**Final Project**

**Project Certificates**

**Course Certificates**

**English Training Sessions**

**Monthly Mock Interview Sessions**

**IEEE Certified Projects**

## Course Content

- Understanding the concept of ethical hacking.
- Differentiating between ethical hacking and malicious hacking.
- Legal and ethical considerations in ethical hacking.
- Using vulnerability scanning tools (e.g., Nessus, OpenVAS).



# ETHICAL HACKING



## Syllabus

### Introduction to Ethical Hacking:

Understanding the concept of ethical hacking.  
Differentiating between ethical hacking and malicious hacking.

Legal and ethical considerations in ethical hacking.

### Networking Concepts:

TCP/IP fundamentals.

Network protocols (e.g., HTTP, FTP, DNS).  
OSI model and its relevance to ethical hacking.  
Network scanning techniques.

### Information Gathering:

Passive reconnaissance techniques.  
Active reconnaissance techniques (e.g., port scanning, footprinting).  
OSINT (Open Source Intelligence) gathering.

### Vulnerability Assessment:

Identifying system vulnerabilities.  
Using vulnerability scanning tools (e.g., Nessus, OpenVAS).  
Vulnerability classification and scoring (e.g., CVE).

### System Hacking:

Exploiting system vulnerabilities.  
Privilege escalation techniques.  
Password cracking methods.  
Backdoor and rootkit detection.

### Wireless Network Security:

Wireless encryption standards.  
Wi-Fi security vulnerabilities.  
Wireless network penetration testing.

### Social Engineering:

Psychological principles behind social engineering.  
Common social engineering attacks (e.g., phishing, pretexting, baiting).  
Mitigation strategies

### Penetration Testing:

Methodologies for conducting penetration tests (e.g., reconnaissance, enumeration, exploitation, post-exploitation).  
Penetration testing tools and frameworks (e.g., Metasploit, Burp Suite).  
Reporting and documentation

### Ethical and Legal Aspects:

Code of ethics for ethical hackers.  
Legal implications of ethical hacking.  
Compliance and regulations (e.g., GDPR, HIPAA).