



APPLETLOGIC

Cybersecurity



OUR SERVICES

Placement Grooming Sessions

Our Placement Grooming Program prepares students for successful careers through regular training sessions focused on interview preparation, communication skills, aptitude training, and group discussions. With continuous guidance and practice, students build confidence and stay ready to excel in placement opportunities.

Assesements

Our Assessment Program helps students track their progress through regular evaluations of technical and professional skills. With continuous assessments and timely feedback, students identify areas for improvement, strengthen their knowledge, and ensure consistent growth throughout the course.

Module wise Evaluations

Our module-wise evaluation system assesses students at the end of each module to measure their understanding and learning progress. This structured approach reinforces key concepts, identifies areas for improvement, and provides timely feedback, helping students build confidence and achieve consistent progress throughout the course.

Experienced Mentors

Our experienced mentors bring strong industry knowledge and practical expertise to guide students throughout their learning journey. With personalized support, real-world insights, and continuous mentoring, they help students build technical skills, solve challenges confidently, and prepare for successful careers in the IT industry.

HR & Mock Interview

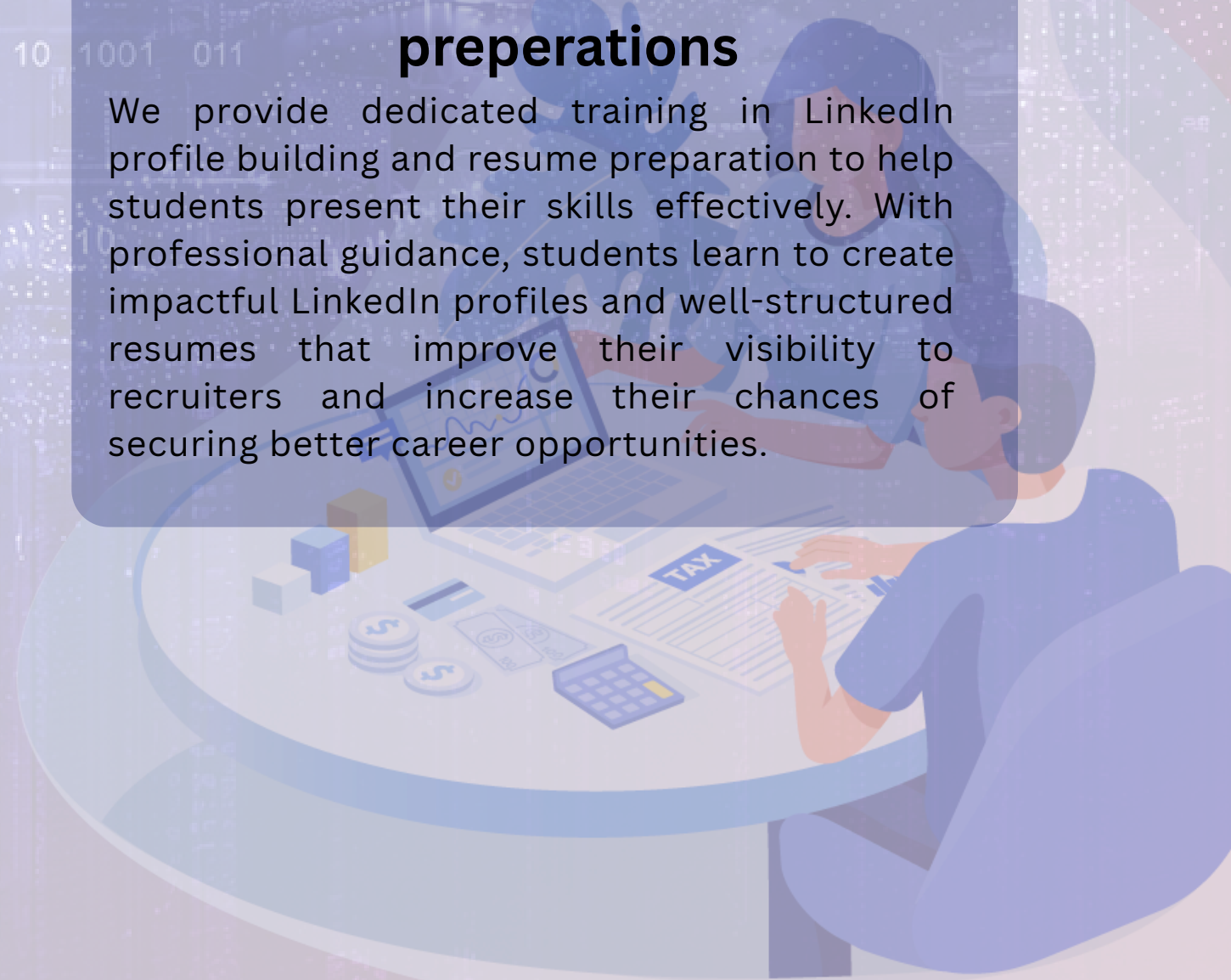
Our HR & Mock Interview sessions prepare students to confidently face recruitment processes. The program includes HR interview practice, technical mock interviews, resume review, communication enhancement, and personalized feedback to improve performance and increase placement success.

Linkedin and Resume preparations

We provide dedicated training in LinkedIn profile building and resume preparation to help students present their skills effectively. With professional guidance, students learn to create impactful LinkedIn profiles and well-structured resumes that improve their visibility to recruiters and increase their chances of securing better career opportunities.

Internship Opportunity

Our Internship Program gives students practical experience by working on real-time projects under expert guidance. It helps them strengthen their technical skills, gain industry exposure, and build the confidence needed for successful career opportunities.



ABOUT THE COURSE

The **Cyber Security** course is a comprehensive, industry-oriented training program designed to equip learners with the knowledge and practical skills needed to protect digital systems, networks, applications, and cloud environments from modern cyber threats. The curriculum combines cybersecurity fundamentals with ethical hacking, penetration testing, network security, web and API security, cloud security, SOC operations, and AI-powered security tools.

Through hands-on labs, Capture the Flag (CTF) challenges, real-world attack simulations, and live projects, students gain practical experience using industry-standard tools such as **Kali Linux, Nmap, Wireshark, Burp Suite, Metasploit, Nessus, OpenVAS, Postman, Splunk, and SIEM platforms**. The course also introduces AI-assisted cybersecurity techniques for vulnerability analysis, threat detection, and security automation.

By the end of the program, learners will be able to perform vulnerability assessments, conduct penetration testing, secure web and cloud applications, respond to security incidents, and build a professional cybersecurity portfolio through a real-world capstone project and internship experience.



Course Modules

Module 1

Cybersecurity Fundamentals

- Introduction to Cybersecurity
- CIA Triad
- Security Principles
- Threat Landscape
- Attack Vectors
- Security Controls

Module 2

Operating System Security

- Windows Security
- Linux Security
- File Systems
- User Permissions
- OS Hardening
- System Security Best Practices

Module 3

Virtual Labs & Security Tools

- VirtualBox & VMware
- Kali Linux Setup
- Bash Scripting
- Python Basics for Cybersecurity
- Nmap
- Wireshark
- Burp Suite
- Nessus

Module 4

Networking Fundamentals

- OSI Model
- TCP/IP
- IP Addressing
- Routing & Switching
- DNS
- Subnetting



Module 5

Network Security & Defense

- MITM Attacks
- DNS Poisoning
- ARP Spoofing
- Packet Sniffing
- Firewalls
- IDS/IPS
- VPN
- Network Hardening
- Vulnerability Scanning

Module 6

Ethical Hacking & Penetration Testing

- Penetration Testing Methodology
- Information Gathering
- OSINT
- Shodan
- Whois
- DNS Enumeration
- Metasploit Framework
- Exploitation
- Privilege Escalation

Module 7

Vulnerability Assessment & CTF

- Vulnerability Assessment
- OpenVAS
- Nessus
- CVSS Scoring
- TryHackMe
- Hack The Box
- VulnHub
- Report Writin

Module 8

Web Application Security

- Web Architecture
- OWASP Top 10
- SQL Injection



- XSS
- CSRF
- SSRF
- IDOR
- File Upload Vulnerabilities
- Burp Suite Professional
- OWASP ZAP

Module 9

Android Application Security

- Android Architecture
- APK Components
- Static Analysis
- Dynamic Analysis
- Apktool
- JADX
- Frida
- Emulator Setup
- Common Android Vulnerabilities
- Secure Coding

Module 10

API Security Testing

- REST API Fundamentals
- Authentication & Authorization
- OWASP API Security Top 10
- Broken Authentication
- Input Validation
- Rate Limiting
- Burp Suite
- Postman
- API Security Reporting

Module 11

API Security Testing

- SOC Fundamentals
- SIEM
- Log Analysis
- Incident Response
- Digital Forensics
- Threat Intelligence



- Malware Analysis
- YARA Rules
- AWS Security
- Azure Security
- IAM
- Cloud Security Best Practices

Module 12

- API Security Testing
- End-to-End VAPT Project
- Web Application Penetration Testing
- Network Security Assessment
- API Security Assessment
- Android Security Assessment
- SOC Monitoring & Incident Response Simulation
- Vulnerability Assessment Report
- Professional Documentation
- GitHub Portfolio Preparation
- Resume & Interview Preparation
- Real-World Client Project / Internship
- Final Project Presentation



Thank you

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