ADACODE
SOLUTIONS

CYBER SECURITY

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 📞 **+917736972033**
+91 90749 81793

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.

ADACODE
Solutions

CYBER SECURITY

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 Content

- Introduction to Cybersecurity: Importance and Scope
- Understanding Threats and Vulnerabilities
- Basic Concepts of Cryptography
- Overview of Security Policies and Standards

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

ADACODE
Solutions

CYBER
SECURITY

Syllabus

Introduction to Cybersecurity

Overview of cybersecurity concepts and principles
Historical perspective and evolution of cybersecurity threats
Importance of cybersecurity in modern society

Cybersecurity Fundamentals

Understanding the CIA triad (Confidentiality, Integrity, Availability)
Common cybersecurity terminologies and definitions
Overview of cybersecurity frameworks and standards (NIST, ISO/IEC 27001, etc.)

Cyber Threats and Attack Vectors

Overview of common cyber threats (malware, phishing, DDoS attacks, etc.)
Understanding attack vectors and attack surfaces
Case studies of notable cyber attacks and their impact

Cryptography

Fundamentals of cryptography (encryption, decryption, hashing)
Symmetric and asymmetric encryption algorithms
Cryptographic protocols and applications (SSL/TLS, PGP, etc.)

Network Security

Basics of network security architecture
Secure network design principles
Common network security protocols and technologies (firewalls, VPNs, IDS/IPS, etc.)

Identity and Access Management (IAM)

IAM concepts and principles
Authentication methods and mechanisms (passwords, multi-factor authentication, biometrics)
Authorization and access control models (RBAC, ABAC, etc.)

Web Security

Common web security threats (SQL injection, XSS, CSRF, etc.)
Web application security best practices
Web security testing techniques and tools

Legal and Ethical Aspects of Cybersecurity

Cybersecurity laws, regulations, and compliance requirements
Ethical considerations in cybersecurity
Legal issues related to cybercrime investigation and prosecution