LEARN FLU
guiding the path to your future

Empower Excel Elevate

10 Weeks Program in
CYBERS SECURITY
Integrated with Top experts from MNCs

ABOUT COMPANY

An idea of learning and upskilling every single day for the hope of a better tomorrow.

LearnFlu is nothing but an idea.An Idea of learning and upskilling every single day for the hope of a better tomorrow. LearnFlu is also a disease, which every being alive wishes to have. A disease of learning something new and interesting for the growth they desire

SUCCESS

- 08
- 07 PLACEMENT ASSISTANCE
- 06 CARRIER GUIDENCE PROGRAM
- 05 RESUME BUILDING
- 04 2 WEEKS PROJECTS
- 03 8 WEEKS TRAINING
- 02 LMS ACCOUNT ACTIVATION
- 01 REGISTRATION

WE OFFER

PROGRAM HIGHLIGHTS

WHY THIS PROGRAM IS YOUR BEST CHOICE

- HIR INTERACTIVE SESSIONS WITH INDUSTRY EXPERTS
- MENTOR-DRIVEN APPROACH REAL WORLD / SCAM PROJECTS
- LIVE MENTORSHIP
- PERSONALISED MENTORSHIP AND CAREER GUIDANCE
- CAREER ASSISTANCE
- DOUBLE CERTIFICATION & EXPERT PANEL
- PLACEMENT ASSISTANCE

COURSE CURRICULUM

BASIC — INTERMEDIATE — ADVANCE — PROJECTS

Curriculum Summary > **Total Modules 8 > Total Chapters: 24 > Total Hours: 56 hours**

cybersecurity curriculum provides comprehensive coverage of network security, cyber attacks, application security, threat management, and security operations. It focuses on both theoretical knowledge and hands-on skills, ensuring students are well-prepared to tackle real-world cybersecurity challenges.

Module 1: Introduction to Cybersecurity and Confidentiality

Chapter 1: Overview of Cybersecurity
- Introduction to cybersecurity and its importance in modern enterprises
- Key concepts: Confidentiality, Integrity, and Availability (CIA Triad)
- Role of cybersecurity in business operations

Chapter 2: Understanding Confidentiality
- Data security in cybersecurity and compliance
- Protecting sensitive information: Encryption, access control, and data masking
- Real-world examples of data breaches, leaks, and misuse

Chapter 3: Cryptography and Secure Communication
- Introduction to cryptography and its role in maintaining confidentiality
- Symmetric vs. asymmetric encryption: AES, RSA, ECC
- Implementing SSL/TLS for secure communication

Module 2: Network Security

Chapter 1: Networking Fundamentals for Security
- OSI model and TCP/IP model: Layers and their functions
- TCP/IP Stack and network layers (OSI model)
- Introduction to core protocols: IP, TCP, UDP, HTTP

Chapter 2: Firewalls and Intrusion Detection Systems (IDS)
- Types of firewalls: Packet filtering, stateful, and proxy
- Intrusion Detection and Prevention Systems (IDS/IPS)
- Configuring firewalls and IDS/IPS for network protection

Chapter 3: Virtual Private Networks (VPNs) and Secure Network Access
- Understanding Virtual Private Networks (VPNs)
- Securing remote access with VPNs (IPSec, SSL VPN)
- Use of tunnelling protocols and encryption for secure communication

Module 3: Cyber Attacks and Threat Landscape

Chapter 1: Common Cyber Attacks and Vulnerabilities
- Overview of cyber attack types: malware, ransomware, phishing, DoS
- Case studies of major cyber attacks and their impact
- Data breaches and their consequences

Chapter 2: Social Engineering Attacks
- Introduction to social engineering and its tactics (phishing, baiting, pretexting)
- Psychological techniques used in social engineering
- Preventive measures for social engineering attacks

Chapter 3: Advanced Persistent Threats (APTs) and Nation-State Attacks
- Characteristics of APTs and their methods
- Understanding the tactics of APTs like an organization's network
- Nation-state cyber espionage and large-scale attacks

Module 4: Application Security

Chapter 1: Introduction to Application Security
- Importance of application security in modern software development
- Common vulnerabilities in applications (OWASP Top 10)
- Secure application architecture principles and best practices

Chapter 2: Securing Web Applications
- Web application security: Threats and defenses
- Implementing SSL, sanitizing inputs, preventing SQL injection, and Cross-Site Request Forgery (CSRF)
- Tools for web application security testing

Chapter 3: Secure Software Development Lifecycle (SDLC)
- Integrating security into the software development lifecycle
- Secure coding practices: Input validation, error handling
- Tools for static and dynamic application security testing (SAST/DAST)

Module 5: Identity and Access Management (IAM)

Chapter 1: Identity Management and Authentication
- Introduction to Identity and Access Management (IAM)
- Authentication methods: passwords, biometrics, tokens
- Implementing multi-factor authentication (MFA)

Chapter 2: Access Control Models
- Role-Based Access Control (RBAC), Discretionary Access Control (DAC), Mandatory Access Control (MAC), Risk-Based Access Control (RBAC)
- Least privilege principle and segregation of duties
- Implementing access control models in real-world systems

Chapter 3: Single Sign-On Practices for IAM
- Identity management tools (Active Directory, LDAP, IAM solutions)
- Federated identity management: SAML, OAuth, OpenID Connect
- Best practices for identity lifecycle management

Module 6: Security Operations and Incident Response

Chapter 1: Security Operations Center (SOC) and Threat Monitoring
- Role and structure of a Security Operations Center (SOC)
- Continuous monitoring, Security Information and Event Management (SIEM) systems, and log analysis
- Real-time threat detection and alerting

Chapter 2: Incident Response Lifecycle
- Incident response framework: preparation, detection, containment, eradication, recovery
- Creating incident response playbooks and procedures
- Post-incident analysis and reporting (lessons learned)

Chapter 3: Forensic Analysis and Threat Hunting
- Conducting digital forensics for incident investigations
- Collecting log files, memory dumps, and network traffic
- Proactive threat hunting in enterprise environments

Module 7: Cloud Security and Data Protection

Chapter 1: Introduction to Cloud Security
- Overview of cloud computing models: IaaS, PaaS, SaaS
- Security challenges in cloud environments
- Shared responsibility model in cloud security

Chapter 2: Securing Data in the Cloud
- Data encryption techniques for cloud storage and transmission
- Access control and identity management for cloud services
- Implementing data loss prevention (DLP) strategies in the cloud

Chapter 3: Cloud Threats and Vulnerabilities
- Common cloud security threats: Misconfigurations, data breaches, insider threats
- Securing APIs and preventing cloud-based attacks
- Using Cloud Security Posture Management (CSPM) tools

Module 8: Cybersecurity Governance and Risk Management

Chapter 1: Cybersecurity Governance and Compliance
- Introduction to cybersecurity governance frameworks
- Regulatory frameworks and standards (ISO 27001, NIST, GDPR, HIPAA)
- Developing and implementing cybersecurity policies

Chapter 2: Risk Management in Cybersecurity
- Identifying and assessing cybersecurity risks
- Risk management frameworks (ISO 31000, NIST)
- Risk mitigation strategies and controls

Chapter 3: Security Audits and Penetration Testing
- Conducting cybersecurity audits and vulnerability assessments
- Penetration testing: tools and techniques (Metasploit, Nmap)
- Reporting vulnerabilities and remediation plans

2 Weeks Major Projects

Jobs You Can Apply

- Security Analyst / Cybersecurity Analyst, ₹6 – ₹12 LPA
- Security Engineer / Cybersecurity Engineer, ₹10 – ₹20 LPA
- Penetration Tester / Ethical Hacker , ₹8 – ₹18 LPA
- Security Consultant , ₹12 – ₹25 LPA
- SOC Analyst (Security Operations Center) , ₹3 – ₹10 LPA
- Threat Intelligence Analyst , ₹10 – ₹18 LPA.

Projects

- Cyber Defence Operations Centre (CDOC) at Cochin International Airport
- VastavX AI – Deepfake Detection System
- CyberSentinel – AI-Powered Threat Detection

TOOL BOX

WIRESHARK
ubuntu
WEBGOAT

MEET YOUR MENTOR

Suraj
Company : MNC
Experience : 5+ years

Suraj is an accomplished mentor with over 5 years of expertise in the dynamic field of data science, having contributed his skills to more than 3 multinational corporations. His rich experience is evident through the successful completion of 20+ projects, with an impressive individual accomplishment of leading over 3 projects. Suraj proficiency extends beyond technical prowess he is recognized for her exceptional leadership qualities. He adept at guiding teams to achieve outstanding results. His dedication and project outcomes but have also established him as a respected figure in the Cyber Security community. suraj stands out as a mentor who combines technical excellence with strong leadership, making his an invaluable asset in the realm of data science.

PLACEMENT SERVICES

READY YOUR DREAM JOB :
AT LEARNFLU, WE ARE HIGHLY COMMITTED TO YOUR LEARNING JOURNEY AND CAREER SUCCESS. OUR DEDICATED TEAM OF EXPERTS IS HERE TO PROVIDE YOU WITH THE SUPPORT AND GUIDANCE YOU NEED FOR SKILL ENHANCEMENT, AND CONNECTIONS NECESSARY TO ACHIEVE YOUR DREAM TECH JOB

RESUME PREPARATION :
DRAFT A STRIKING RESUME WITH EXPERT GUIDANCE TO EFFECTIVELY HIGHLIGHT YOUR ACHIEVEMENTS, SKILLS, AND EXPERIENCE, MAXIMIZING YOUR CHANCES OF SECURING

SOP/ SKILL PREPARATION :
SUPPORT TEAM, COMMUNICATION, TEAMWORK, AND LEADERSHIP ABILITIES WITH PERSONALIZED SOP/SKILL PREPARATION TAILORED FEEDBACK, DESIGNED TO HELP YOU EXCEL IN ANY PROFESSIONAL SETTING.

HIRING PARTNERS & CAREER PORTAL :
ACCESS TO EXCLUSIVE HIRING PARTNERS AND OPPORTUNITIES THROUGH OUR DEDICATED HIRING PARTNER, AND OUR EXCLUSIVE CAREER PORTAL, DESIGNED TO CONNECT YOU WITH HIGH-DEMAND, HIGH-PAYING JOBS.

MENTORSHIP
EACH MENTOR HAS EXPERIENCE THROUGH INCORPORATED UNDERGRADUATED PROJECTS, EARNING HIS PRIORITY CERTIFICATES

ADDITIONAL SERVICES

Linkedin optimization
Optimizing your LinkedIn profile can significantly enhance your professional visibility and career growth

Career Guidance
Career guidance plays a vital role in helping individuals navigate the ever-changing challenges and opportunities of work

Career Opportunities
Career opportunities are the various professional positions and roles available in different industries and organizations, and the fulfillment of individual personal and aspirations

Hands-on experience
Hands-on experience is crucial for developing practical skills in the field of cybersecurity. Through practical exercises, it helps students to transition from theory

Personality Development
Personality development is known as it enhances overall personal growth, fostering self-awareness, interpersonal skills, leading to success in both personal and professional life.

CREDIT VALIDATION REPORT

COURSE COMPLETION CERTIFICATE

INTERNSHIP COMPLETION CERTIFICATE

STUDENTS REVIEWS

Sravan ★★★★★
Very good mentorship, my mentors are teaching me more advanced things. They recommend my friends to do this internship.

Vasavi ★★★★★
This is the best internship provider with major projects and real experienced mentors.

Sarvani ★★★★★
They are the best internship provider company with 100% job assistance

Raghu Roy ★★★★★
This is the best internship to learn and gain experience with best certified mentors

Aradhana ★★★★★
LearnFlu is pioneering in integrating advanced technology, offering a dynamic platform for immersive learning experiences. With innovative tools and engaging content,LearnFlu elevates the educational landscape.

Kashish Yadav ★★★★★
Very good mentorship programs, my mentors are teaching me more advanced things. They recommended my friends to do this internship.

Dinakaran ★★★★★
Thank you so much learnflu for giving this online for opportunity and developed by knowledge.

Aju Koshan ★★★★★
I enrolled for data Data Science Program the best decision and I've ever made. The curriculum is well-structured, covering essential and the mentor Syed Aslam's help given my complete information about this internship and Training Programme and I am very much excited regarding the program.

Pooja ★★★★★
This is a very good learning platform to learn and gain knowledge students training and internship programs

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