MEDHA EDU TECH
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Master Cybersecurity & Build the Future

Protect. Detect. Respond.

MET – Master Cybersecurity & Build the Future

Ministry of MSME, Govt. of India

Google Partner

#startupindia

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India's First-Ever Institute
to Offer
AI-ASSISTED MOCK INTERVIEWS!
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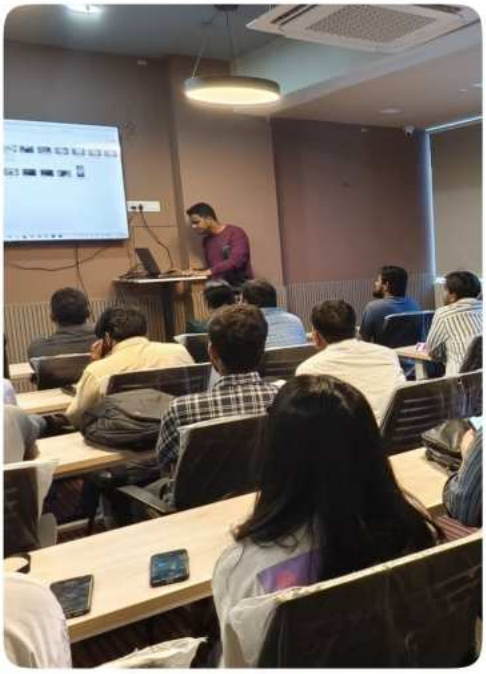
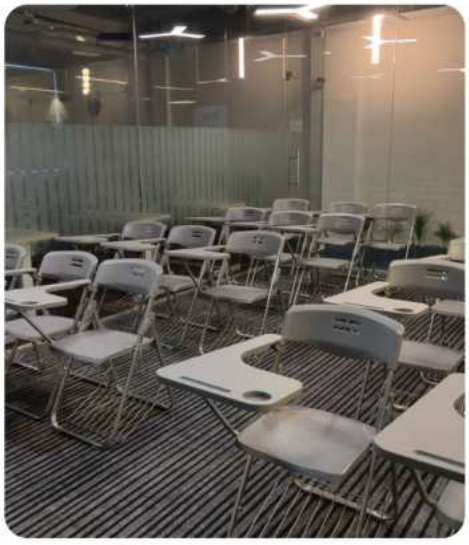
About MET

At Medha Edutech, we take pride in delivering top-tier education through exceptional instructors with extensive real-world expertise. Our comprehensive programs in Full Stack Development, Data Science, Generative AI, Cyber Security, and UI Development are meticulously crafted to meet the evolving demands of the tech industry. Having successfully upskilled over 20,000 students across 15+ countries, we remain committed to excellence in education.

We are committed to empowering learners with practical knowledge through hands-on training and live projects. Guided by industry-experienced trainers, our courses ensure a seamless blend of theory and real-time application. Whether you aim to enhance your skills, transition into a new career, or embark on your professional journey, Medha Edutech stands as your trusted partner in achieving success. Recognized for the ***India Excellence Awards 2024,*** we continue to set benchmarks in quality education. As a leading software training academy, we are dedicated to making learning accessible, impactful, and transformative.

World-class infrastructure on campus brings the feel of an IT company





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Why Choose MET

At MET, we turn learners into achievers with hands-on training, certifications, Placements, and global opportunities!

Instructors with vast Software Industry Expertise

Access free spoken english, Aptitude & Reasoning Classes

Transform yourself with Personality Development Classes

Get Hands on Projects

Regular Assignments and Evaluations

Weekly Tasks and Skill Assessments

Practical and Industry-Centric Curriculum

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Low-Cost Fee Structure

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CV/Resume Development Support

Professional Portfolio Guidance

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Who Can Learn?

- IT Professionals looking to upskill
- Network Administrators & System Engineers
- Cybersecurity Enthusiasts
- Students pursuing B.Tech/ B.Sc (CS/IT), MCA, or equivalent
- Professionals aiming to shift to security roles
- Anyone passionate about protecting digital assets

In-Demand Roles

- Vulnerability Analyst
- Patch Management Specialist
- Cybersecurity Analyst
- Security Operations Center (SOC) Analyst
- Network Security Engineer
- Risk and Compliance Manager

Industries Benefiting from Vulnerability & Patch Management

- Banking & Financial Services
- Healthcare & Pharma
- E-Commerce & Retail
- Government & Defense
- IT & Cloud Service Providers
- Education & EdTech

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Your Smart Learning Partner Medha Academy LMS

LMS LIKE NEVER BEFORE

Built for the Future

✓ Get **auto-uploaded recorded sessions** daily after your class.

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Assessments to test your skills

Performance analytics

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*Learning isn't limited to the classroom anymore. **With MET LMS,** the classroom follows you.*

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Our Alumni Work At

At Medha EduTech, we take immense pride in the success of our students who have gone on to build thriving careers with leading companies across the globe. Our alumni have secured prestigious roles in top organizations, including ***Google, Microsoft, Amazon, Deloitte, Infosys, Wipro, TCS, Cognizant, Capgemini, Accenture, Byju's, Zomato, Swiggy, and many more.***

By fostering a strong foundation in both technical and professional skills, we ensure our students are job-ready and capable of making an impact in the dynamic world of technology. Join Medha EduTech and step into a future filled with possibilities!

Companies Hiring Cybersecurity Specialist in Ethical Hacking

Google | Microsoft | amazon | IBM
facebook | accenture | TCS TATA CONSULTANCY SERVICES | cognizant
verizon | Adobe | McKinsey&Company | Deloitte.
SAMSUNG | genpact | Fidelity INVESTMENTS | BARCLAYS
Gartner | Tech Mahindra | KPMG | Capgemini
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What is Cybersecurity & Why Is It Important?

Cybersecurity is the practice of protecting systems, networks, applications, and data from digital threats, attacks, and unauthorized access. With today's increasing reliance on technology, strong cybersecurity has become the backbone of every organization and individual.

Importance:

Prevents data breaches, hacking, and cyber fraud

Ensures compliance with global security standards (ISO, HIPAA, GDPR)

Protects sensitive business and personal information

Maintains system uptime and reliability

Builds trust with customers, clients, and partners

Saves long-term costs from potential cyberattacks

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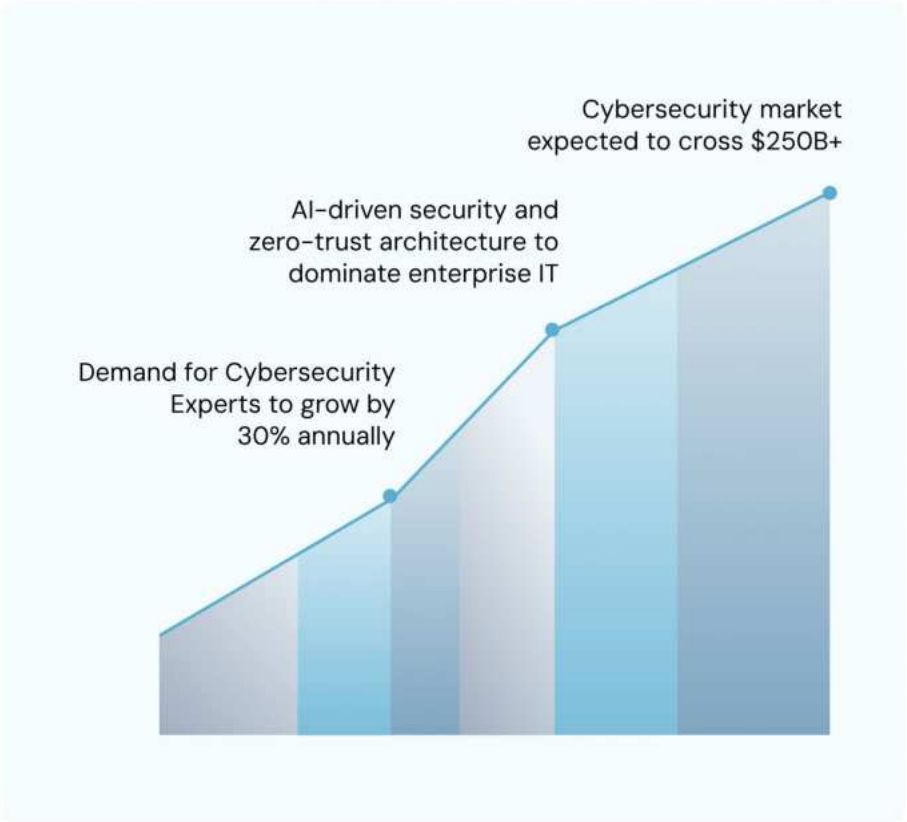
Cybersecurity – Present & Future

2025 (Present)

2028 & Beyond (Future Projections)



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Tools & Technologies

Vulnerability & Patch Management Tools

Tanium

Qualys

Rapid7

Orca Security

ArmorCode

Prisma

Black Duck

Pentest Tools

Threat Intelligence & Scoring

CVSS

NVD

Threat Bulletins

Vendor Case Portals

Patch Management & OS Tools

Microsoft Patch Management Tools

Microsoft Update Catalog

Jamf

RPM

Operating Systems & Platforms

Linux

Windows

Mac

Version Control

Git / GitHub

Command-Line & Network Utilities

Linux CLI

Windows Update Utility

Ping

Netstat

Traceroute

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Cybersecurity Course Breakdown

Month 1

Cybersecurity Foundations

- Introduction to Cybersecurity & Its Importance
- Networking Basics – TCP/IP, UDP, OSI & Network Layers
- Cyber Threat Landscape & Attack Vectors
- CIA Triad (Confidentiality, Integrity, Availability)
- Encryption, Cryptography & Hashing Fundamentals
- Cybersecurity Laws, Standards & Compliance (ISO, GDPR, HIPAA)

Month 2

Threats, Attacks & Defense Mechanisms

- Types of Cyber Attacks (Malware, Phishing, Ransomware, DoS/DDoS)
- Firewalls, IDS/IPS & Endpoint Security
- Secure Authentication & Access Management
- Security Information & Event Management (SIEM)
- Threat Intelligence – Risk Assessment & Mitigation
- Hands-on Labs: Simulated Cyber Attacks & Defense

Month 3

Ethical Hacking & Application Security

- Ethical Hacking & Penetration Testing Basics
- Vulnerability Assessment Tools (Nessus, Qualys)
- Web Application Security (OWASP Top 10)
- Secure Coding Practices
- Cloud Security (AWS, Azure, GCP)
- Red Team vs Blue Team Exercises
- Resume Building & Mock Interviews

Month 4

Advanced Security & Real-Time Practice

- Incident Response & Digital Forensics
- Security Operations Center (SOC) Tools & Techniques
- Zero Trust Architecture & Zero-Day Exploit Handling
- AI & Automation in Cybersecurity
- Capstone Project – Real-World Cybersecurity Simulation
- Placement Readiness: Interview Prep, Career Guidance

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LEARNING PATH

Mon-Fri

1-hour class,
1.5-hour hands-on practice,
project work, &
practical learning,
soft skills.

Saturday

Revision,
1-on-1 mentorship,
mock interviews, soft skills & industry insights.

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Cyber Security Detailed Modules

Module 1: Introduction to Cyber Security

- What is Cyber Security?
- Importance of Cyber Security in Today's World
- Types of Cyber Threats and Attacks
- CIA Triad (Confidentiality, Integrity, Availability) – Detailed Explanation
- Basics of Security Policies and Standards
- Security Compliance and Governance Overview
- Introduction to Cyber Kill Chain and MITRE ATT&CK

Module 2: Networking & Security Fundamentals

- Basics of Networking (TCP/IP, OSI Model)
- Types of Networks (LAN, WAN, VPN, etc.)
- Protocols and Ports – Understanding their use in security
- Firewalls, IDS & IPS Basics
- Web Servers, DNS, Proxy, Load Balancers
- Packet Capturing & Analysis (PCAP Introduction)
- Log Analysis Fundamentals

Module 3: Vulnerability & Patch Management

- What is a Vulnerability and how to identify the vulnerabilities
- Lifecycle of Vulnerability Management
- Different types of attacks involved in identifying the vulnerabilities
- What are Scans, How to schedule scans and its Uses
- Option Profile and usage of option profile and different types of it
- Scanner Appliance and its Base work explanation
- What are Agents and Authentication scans and its functionality
- How Agents will work and how its scan the Environment
- What is CVE ID, CVSS, NVD Concepts and how its uses
- What Basis Severity of Particular vulnerability is calculated
- SLA Standards and its detailed view
- How to Analyze the vulnerability reports and how to schedule the monthly scans
- How signatures have been Captured from Knowledge base and its uses
- What is Asset Groups and Asset Search and its workflow
- How to check the logs in scans and what is PCAP scan and its functionality

Cyber Security Detailed Modules

- What are the Hackers sites and how to use the hacker's site along with threat feeds
- How to Triage the Vulnerability and what are the different stages involved while triaging a vulnerability (Open, In Progress, Accept Risk)
- False Positive vulnerabilities and its identification
- What are Exceptions and how to create and exceptions in Tools like (Jira, Armorcode)
- Exceptions Workflow and Detailed explanations
- What is Cybersecurity and Infrastructure Security Agency (CISA) KEV and its importance
- Usage of CISA KEV in our daily activities and its Functionality
- What patch Priority will offer and in which scenario it is used
- What is Change Process, when we will create CR and how to create the change Process

Module 4: Security Operations Center (SOC)

- Introduction to SOC
- SOC Roles and Responsibilities
- Monitoring & Detection Tools
- SIEM (Security Information and Event Management) Overview
- Log Collection and Correlation
- Incident Detection and Escalation Workflow
- Threat Hunting Basics
- Hands-on with SIEM tools (Splunk / QRadar / ELK)

Module 5: Threat Intelligence

- What is Threat Intelligence?
- Types of Threat Intelligence (Tactical, Operational, Strategic)
- Threat Feeds and Sources
- Dark Web Monitoring & Hacker Forums
- Understanding IOC, IOA, TTPs
- Open Source Intelligence (OSINT) Tools
- Case Studies of Real-Time Threat Intelligence Usage

Module 6: Ethical Hacking & Penetration Testing

- Introduction to Ethical Hacking
- Phases of Ethical Hacking (Reconnaissance, Scanning, Exploitation, Reporting)
- Footprinting & Information Gathering
- Network Scanning Tools (Nmap, Nessus, etc.)
- Web Application Testing (OWASP Top 10)
- Exploitation Techniques and Payloads
- Post Exploitation Techniques
- Writing Exploit Reports

Cyber Security Detailed Modules

Module 7: Red Teaming & Blue Teaming

- Difference Between Red, Blue, and Purple Teams
- Red Team – Adversary Simulation, Attack Planning
- Blue Team – Defense Strategies, Incident Response
- Hands-On Red vs Blue Exercises
- Tabletop Scenarios and Simulations

Module 8: Cloud Security

- Basics of Cloud Computing
- Cloud Service Models (IaaS, PaaS, SaaS)
- Cloud Security Challenges
- Cloud Security Tools and Frameworks (AWS, Azure, GCP Security)
- Case Studies of Cloud Breaches

Module 9: Endpoint Security

- Endpoint Security Tools (EDR, Antivirus, DLP)
- Hardening Endpoints and Servers
- Device & Patch Management
- Jamf Tool: Introduction and Usage for Endpoint Security

Module 10: Digital Forensics & Incident Response (DFIR)

- What is Digital Forensics?
- Forensics Data Collection Techniques
- Chain of Custody in Investigations
- Incident Response Lifecycle
- Tools for DFIR
- Case Studies

Module 11: Risk & Compliance Management

- Zero Trust Security Model
- Risk Management Frameworks (ISO, NIST, PCI-DSS)
- Ransomware Attack Lifecycle
- Phishing Attacks and Social Engineering Defense
- Advanced Persistent Threats (APT)
- Cyber Laws and Regulations

Module 12: Advanced Threat Defense

- Future Trends in Cybersecurity (AI in Security, Quantum Threats, etc.)
- Threat Hunting Advanced Concepts
- Insider Threat Detection
- Malware Analysis (Static & Dynamic)

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Cyber Security Detailed Modules

Module 13: Ticketing Systems & Reporting

- Introduction to Ticketing Tools (Jira, ServiceNow, etc.)
- ArmorCode: Deep Dive into Security Exception & Workflow Management
- Incident Tracking and Workflow
- Creating, Assigning, and Closing Security Tickets
- Integrating Ticketing with SIEM / Vulnerability Tools
- Report Writing and Documentation Standards
- Communication Skills for SOC Analysts

Module 14: Cybersecurity Tools Hands-On

- Splunk / ELK / QRadar
- Burp Suite
- Wireshark
- Nessus / Qualys / OpenVAS
- OSINT Tools (Maltego, Shodan, etc.)

Module 15: Capstone Project & Career Readiness

- Real-World Simulated SOC Project
- Vulnerability Assessment & Penetration Testing (VAPT) Report Creation
- Cloud & Endpoint Security Hands-On Assessment
- Threat Intelligence Case Study
- Resume Building for Cyber Security Roles
- Mock Interviews (Technical + HR + AI Mock Interview Tool)

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Cyber Security Detailed Modules

Cybersecurity Content

- Evolution of CyberSecurity
- Purpose of CyberSecurity and its Objectives
- Roles and Responsibilities involved in Cyber-attacks

Index

- Vulnerability & Patch Management
- Application Security
- SOC Fundamentals
- Fundamentals of Ethical Hacking
- Threat intelligence and Threat module
- RedTeam & Blue Team
- Jamf and its Uses

Network Concepts

- Fundamentals of Network concepts
- OSI Models and Its Uses
- TCP/UDP and its Advantages
- Detailed Explanation on Firewall, Gateway, Router, VPN devices
- What are Ports, Protocols and its importance
- Detailed Explanation of Network Classes

Content of Vulnerability Management

- What is a Vulnerability and how to identify the vulnerabilities
- Lifecycle of Vulnerability Management
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Cyber Security Detailed Modules

Patch Management and its Uses

- Patch management we used Tanium tool for patching
- Different Modules in Tanium and its functionality
- How to schedule a deployment using Tanium tool for deploying 3rd Party application as well as Operating system patches
- What is meant by Predefined gallery and its functionality
- Interact, Comply module and its uses in Daily life
- What are the terms Standards and Findings in Comply module and its uses
- Patch modules explanation and its importance
- How to check application and software present using asset module in Tanium
- How to run queries using question builders in Tanium and how to save those queries
- What is Reversal and Discover module and its uses
- How to collect the logs and agent related stuff and how the sync is happened between the agent and Client machine

Microsoft Catalog

- Explain about Microsoft Catalog and its Functionality
- How to verify the KB Details from Microsoft Catalog
- How to check whether the Package is superseded with other KB
- How to apply the KB to windows servers using sccm and Tanium Tool

SOC (Security Operation Center)

- What is SOC and its Functionality
- How to analyze False Positive threats and threat feeds
- What is the process of incident handling, and what steps are involved in effectively managing a security incident
- Basic knowledge of MITRE ATT&CK framework
- How to analyze the Threat Intelligence tools and threat sites
- Detailed explanation about alerts, incidents, and response from a report
- Basic Knowledge on SIEM tools like QRadar

Ticketing Tools

1. **Armorcode**

- Detailed Explanation of Armorcode and its Functionality
- How to change the status of Vulnerability in Armorcode like open to in progress
- How Exceptions are used using Armorocode
- How to identify the False+ve vulnerabilities and how to work on it
- What are the different filters used in Armorcode for extracting the SLA Breached vulnerabilities
- How Qualys and Blackduck vulnerabilities are triaged using Armorcode

2. **Jira:**

- What is Jira Ticketing tool and how to create ticket using Jira
- What is Risk and Cerf and how to create risk and cerf tickets

- What is Epic and Stories in Jira and its functionality
- How to change ticket status in Jira Dashboard and how to track it

Pentest

- What is Pentest and its uses
- How to inject sample pentest report from Armorcode
- Prerequisites required while performing pentest from Armorcode
- Advantages of Pentest using Armorcode and its Functionality

Ethical Hacking

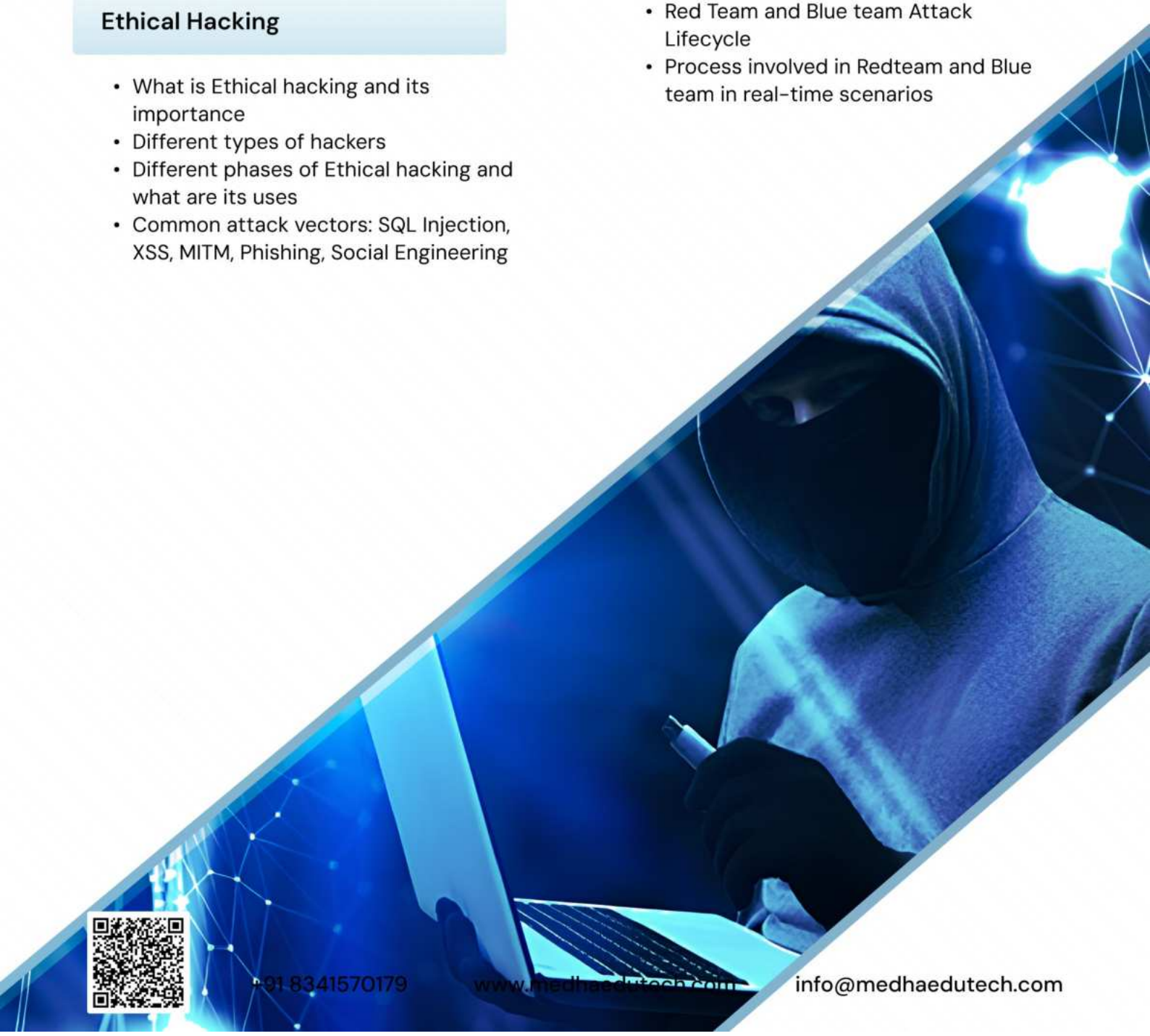
- What is Ethical hacking and its importance
- Different types of hackers
- Different phases of Ethical hacking and what are its uses
- Common attack vectors: SQL Injection, XSS, MITM, Phishing, Social Engineering

Jamf

- What is Jamf and what is purpose of Jamf Portal
- Explanation of Jamf Tool and its importance
- How to update the Mac devices using Jamf Tool
- Different flavors of Mac devices

Red Team & Blue Team

- What is Redteam and Blue team and where it is used
- Red Team and Blue team Attack Lifecycle
- Process involved in Redteam and Blue team in real-time scenarios



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Cyber Security Course Outcomes

01 Understand the core concepts of Cyber Security & Governance.

02 Build a solid foundation in networking, firewalls, and IDS/IPS

03 Identify, analyze, and mitigate security vulnerabilities

04 Perform vulnerability scans and interpret detailed reports

05 Apply ethical hacking techniques for real-world attack simulations

06 Master penetration testing across web, networks, and cloud

07 Gain hands-on expertise with SIEM, SOC, and log monitoring tools

08 Respond to incidents effectively using forensics techniques

09 Implement security best practices for endpoints, servers, and cloud

10 Apply Zero Trust and modern security frameworks in practice

11 Work with Jira, ServiceNow, and ArmorCode for security workflows

12 Understand patch management and change request processes

13 Learn malware analysis and detection techniques

14 Enhance skills in identity & access management

15 Leverage threat intelligence & hacker feeds for proactive defense

16 Develop skills in risk assessment and compliance standards

17 Create reports, documentation, and remediation plans professionally

18 Work on live projects and real SOC use cases

19 Get career-ready with resume building & AI-powered mock interviews

20 Prepare for roles like SOC Analyst, Pen Tester, Ethical Hacker, and Cloud Security Specialist

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Job Placement Journey

Pre-boot sessions

Live Classes with Mentorship

Regular Assignments

1:1 Mentoring

Soft Skills, Reasoning, Aptitude & Personality Development

Work on Multiple Projects

Resume Building

Mock Interview

Network Opportunities

Internships

Skill Based Interview Schedules

Portfolio Building

Post Placement Support

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Your Path to

Cybersecurity Excellence

PROTECT SYSTEMS, DETECT THREATS, AND SECURE NETWORKS WITH HANDS–ON CYBERSECURITY SKILLS.

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