



CYBERSECURITY ESSENTIALS

BY IBBYCSM

FOR COLLEGE/UNIVERSITY STUDENTS



AN ONLINE COURSE BY

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INTRODUCTION

ABOUT THE PROGRAM

This provides the foundational skills essential for starting a career in cybersecurity, focusing on four disciplines: network defense, ethical hacking, digital forensics, and security operations.

PROGRAM HIGHLIGHTS



- **80 Hours** intensive live training session with cybersecurity industry experts (40 Weeks)
- **120 Hours** dedicated for **85 Real-life** Practical hands-on labs.
- **4 Micro-credentials** - network defense, ethical hacking, digital forensics, and security operations.
- **Certification guidance** to Codered EC-Council Essentials Certification, Fortinet NSE 1,2 and 3, Palo Alto PCCET, and TryHackme Pre-security and SOC L1
- **Bonus** - capstone projects, CTF events, Webinar with industry expert, Job and interview skills preparation.
- **Certificate** of Completion

WHO CAN TAKE THIS COURSE?

- College Students
- Cybersecurity Aspirants

6 REASONS TO CHOOSE CYBERSECURITY ESSENTIALS PROGRAM



Strong Foundation

Total foundational cybersecurity domain coverage with key concepts in each domain with practical hands-on labs



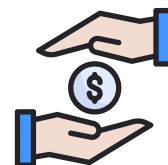
Master Mentors

Learn from experts globally recognized for contribution to cybersecurity and cyber defense



Certification Guidance

Guidance to get industry recognised certification from top cybersecurity vendors



Highly Affordable

Kickstart your cybersecurity career by spending less.



Peer Networking

Join the elite community of top cybersecurity professionals, practitioners and researchers



After Course Support

Get additional support for LinkedIn profile building, CV preparation, and job guidance.

CONCEPTS COVERED



Network Security
Fundamentals



Linux
Fundamentals



Ethical Hacking
Fundamentals



Application
Security



Virtualization and
Cloud Computing



Wireless Network
Security



Cryptography



IoT and OT Security



Incident Response



Computer
Forensics



Security Operations
and Monitoring

TOOLS COVERED



CYBERSECURITY DEMAND

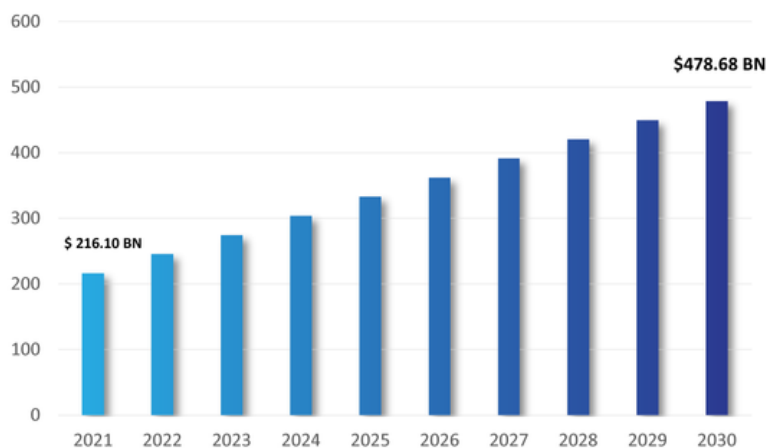
Massive Problems

Insecurity continues to surge year on year

- ⚠ Global cybercrime costs to grow by 15 percent per year over the next five years, reaching \$10.5 trillion USD annually by 2025, up from \$3 trillion USD in 2015.
- ⚠ Ransomware damages would cost the world \$5 billion (USD) in 2017, up from \$325 million in 2015 — a 15X increase in just two years. The damages for 2018 were predicted to reach \$8 billion, for 2019 the figure was \$11.5 billion, and in 2021 it was \$20 billion — which is 57X more than it was in 2015.
- ⚠ Global spending on security awareness training for employees (previously one of the most underspent cybersecurity budget items) is predicted to reach \$10 billion by 2027
- ⚠ Over an eight-year period, the number of unfilled cybersecurity jobs grew by 350 percent, from one million positions in 2013 to 3.5 million in 2021.

Global Cyber Security Market (2021-2030)

Market forecast to grow at a CAGR of 9.5%



Cyber Security Salaries in India

₹11L/yr

Average Base Pay

According to
Glassdoor





COURSE CURRICULUM

Network Defence Essentials

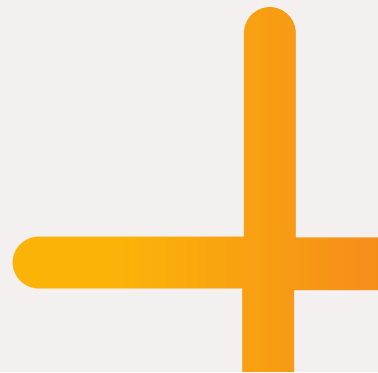
10 Weeks - 1 Micro-credential

- Network Security Fundamentals
- Identification, Authentication, and Authorization
- Network Security Controls: Administrative Controls
- Network Security Controls: Physical Controls
- Network Security Controls: Technical Controls
- Virtualization and Cloud Computing
- Wireless Network Security
- Mobile Device Security
- IoT Device Security
- Cryptography and PKI
- Data Security
- Network Traffic Monitoring

Ethical Hacking Essentials

10 Weeks - 1 Micro-credential

- Information Security Fundamentals
- Ethical Hacking Fundamentals
- Information Security Threats and Vulnerabilities
- Password Cracking Techniques and Countermeasures
- Social Engineering Techniques and Countermeasures
- Network-Level Attacks and Countermeasures
- Web Application Attacks and Countermeasures
- Wireless Attacks and Countermeasures
- Mobile Attacks and Countermeasures
- IoT and OT Attacks and Countermeasures
- Cloud Computing Threats and Countermeasures
- Penetration Testing Fundamentals





Digital Forensics Essentials

10 Weeks - 1 Micro-credential

- Computer Forensics Fundamentals
- Computer Forensics Investigation Process
- Understanding Hard Disks and File Systems
- Data Acquisition and Duplication
- Defeating Anti-forensics Techniques
- Windows Forensics
- Linux and Mac Forensics
- Network Forensics
- Investigating Web Attacks
- Dark Web Forensics
- Investigating Email Crime
- Malware Forensics



Security Operation Center

10 Weeks - 1 Micro-credential

- Cyber Defence Frameworks
- Cyber Threat Intelligence
- Network Security and Traffic Analysis
- Endpoint Security Monitoring
- Security Information and Event Management
- Digital Forensics and Incident Response
- Phishing

RECORDED CONTENT

Let us Learn the Basics

- Fundamentals of Cyber security
- Fundamentals of Network Security
- Fundamentals of Cloud Security
- Fundamentals of SOC

Fortinet NSE 1, 2 and 3

- Information Security Awareness
- Evolution of Cyber Security
- Fortinet Product Awareness

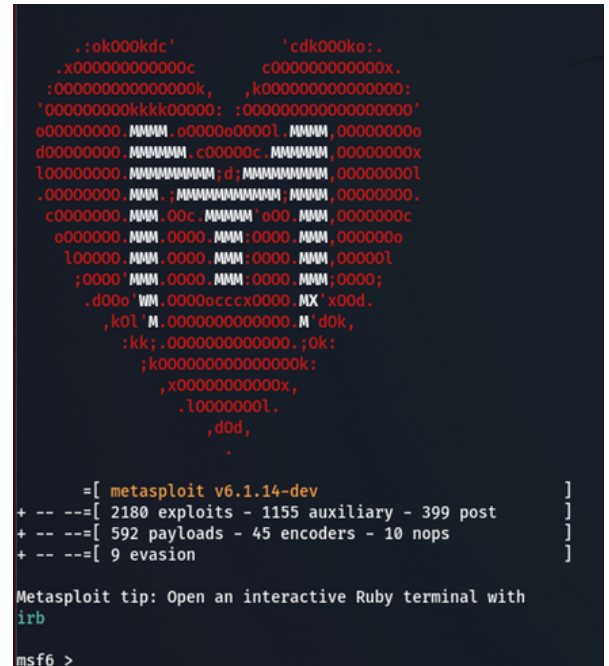
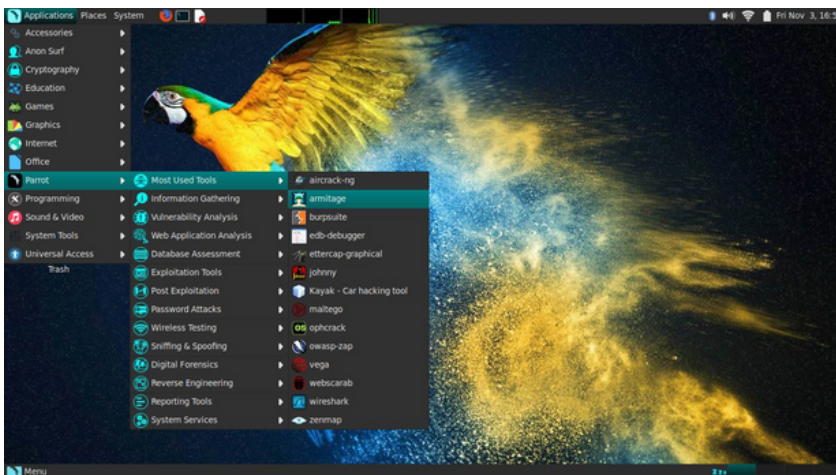
Pre Security

- How The Web Works
- Linux Fundamentals
- Windows Fundamentals

CERTIFICATIONS GUIDANCE

Get certified from 4 leading cybersecurity vendors/Platform





ABOUT THE MENTOR

DR. MOHAMED IBRAHIM

CCIE, CISM, NSE7, VCIX-NV, CEH, CSA, CEI
CEO, CYBERHEALS



- Cybersecurity Expert | Cybersecurity/Network Consultant | Firewall Consultant | International Speaker | Career Coach | Serial Entrepreneur | CCIE/VCIX/Cybersecurity/Ethical Hacking Trainer | Youtuber
- He has also helped his students achieve their career and certification goals. Some of them are working in the Red team, Blue team, and SoC as Cybersecurity Analysts, Specialists, Experts, and even CISOs.
- After training 10,000+ students from 40+ Countries over a decade, he had this vision to share his practical global learning experience with learners and empower them on a larger scale.
- He has worked across multiple Cybersecurity Vendors like Cisco, Juniper, Fortinet, Palo Alto, F5, VMWare, Arbor, IBM, Bluecoat, FireEye, etc., with significant customers in Oil & Gas, Telecom, ISPs, Banking, Government Hospitals, and Education Sectors.
- He has visited the U.S, Germany, Italy, London, France, Netherland, Dubai, Abu Dhabi, Kuwait, Srilanka, India, Malaysia, and Singapore for various International Conferences and Training.

SUBJECT MATTER EXPERTS



Mohammed Aadhil Ashfaq

SENIOR PENETRATION TESTER | SRT | EJPT | DANTE | PRO HACKER HTB

He is a senior Penetration tester with 6+ years of experience in Penetration Testing. He is acknowledged by the governments of Australia, India, and the UK



Shahjahan

NSE-4 | CCNP | MCSE | VMWARE | HONEYWELL EBI & DVM

He is a Network security engineer with 15 + years of experience. He has completed various certification from top cybersecurity vendors



Mohamed Thahir

CYBER SECURITY TRAINER | CEH | CTF PLAYER

He is a cyber security trainer skilled in various hacking tools and techniques. He is a certified ethical hacker from EC-Council.



Naveen Kumar

CYBERSECURITY SPECIALIST | CEH | CTF PLAYER

He is a Cybersecurity Analyst skilled in various domains of cybersecurity. He is a certified ethical hacker and has a top 10 ranking in HackTheBox in India



Nandu Anil

MALWARE ANALYST | CHFI | CTF PLAYER

He is a Malware analyst and a digital forensic investigator. He is a certified hacking forensic investigator and has top ranking in the cyber defenders



For More Details



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