



TECHBYHEART

The Software Solution You Can Trust

INTERNSHIP PROGRAM

**INTERNSHIP PROPOSAL FOR ,
St. TERESA'S COLLEGE (AUTONOMOUS) , ERNAKULAM
AFFILIATED TO MAHATMA GANDHI UNIVERSITY
RE-ACCREDITED BY NAAC WITH A++ GRADE(4TH
CYCLE)**

ABOUT US

Techbyheart is an IT company, established in 2018, that provides various services such as web development, app development, software development, digital marketing, Cyber Security training and consultation. Our headquarters is in Kochi with branches in Dubai and Kannur.

We have been the technical partner of KTU TECHFEST (The annual Tech Fest of APJ ABDUL KALAM Technological University) for the last 2 years. We have conducted workshops and webinars on Cybersecurity and Ethical Hacking at various arts, science and engineering colleges in Kerala. We provide internships for students.

TRAINING PROCESS

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MODULE 01

What is Cyber Security?, Essential Terminologies, OSI Reference Model, TCP/IP Model, Types of Cyber Attacks, Threat categories, Attack vectors, Risk assessment, CIA Triad, Ethical Hacking Essentials, Stages of Hacking, Types of Hacker, Cyber Laws and Standards

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MODULE 02

Kali Linux Installation, Basic Overview with Kali Linux, Basic Linux commands, Directory commands, File commands, File access commands

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MODULE 03

Tor Browser, Dark Web, Deep Web, Surface web v/s Dark web

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MODULE 04: OSINT & SOCIAL ENGINEERING

IP address, Types of IP address, MAC address, Types of MAC address, VPN, VPN-working and VPN protocols, Proxy Server, Spoofing

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MODULE 05

Information gathering, Types of Information Gathering, Footprinting and reconnaissance, Outcome of footprinting, Familiarization of various information gathering tools, Open source intelligence, Maltego, Recon-ng, Hunter.io, Art of Googling (Google advanced search operators)

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MODULE 06

Sub-Domain Enumeration

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MODULE 07

Social Engineering, Types of social engineering, Phishing, how to prevent Phishing attacks

TRAINING PROCESS

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MODULE 08

Networking Basics, TCP and UDP, Important Port Numbers, Network Mapping

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MODULE 09

Vulnerability analysis, Nessus, Nikto, Lynis, Searchsploit

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MODULE 10

Metasploit framework, Android Hacking

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MODULE 11

Malware analysis and source code review

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MODULE 12

Denial of Service, DoS Evolution, Types of DoS, Symptoms of DoS, Distributed Denial of Service, Hammer, DDosTor, Dos attack Prevention.

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MODULE 13

Types of Website attacks, website penetration testing, web application analysis, Burpsuite, OWASPTOP 10, OWASP-ZAP, CROSS-SITE SCRIPTING, BEEF FRAMEWORK, SQLINJECTION, SQLMAP

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MODULE 14

Sniffing, Network Penetration Testing, Network Security.

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MODULE 15

Project or Hackathon for testing practical skills

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MODULE 16

Career opportunity.

CHIEF ADVISOR

SUBASH BABU P K

State Head National Cyber Defense Research Centre (NCDRC),
National Coordinator Emergency Communication Wing of AREC,
Former Head of Cyber Security Centre for Advanced Training In Security
Govt of Kerala, Former Deputy Commander Kerala Police Cyberdome.

TRAINER INFORMATION

RESAL V

Cyber Security Analyst
M.TECH | CEH | CNSS (ICSI,UK) | NSE-3
Associate Member at National Cyber Defence Research Centre.

DHANOOP R

B.TECH Computer Science and Engineering ,CEH
2 Years of experience working as Cyber Security Analyst at
TECHBYHEART Pvt. Ltd.
Focused on Vulnerability Analysis and Penetration Testing

INTERNSHIP DETAILS

Apart from learning different tools and techniques in Cyber Security and Ethical Hacking, a student will also gain industry experience through this internship.

Virtual Lab Support (EC Council iLabs)

Duration : 10 days(2-3 hours per day)

Fee : 1500/- only (per head)



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