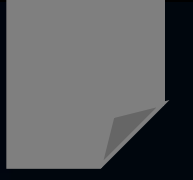




বিসমিল্লাহির রাহমানির রাহিম



আসসালামু আলাইকুম



# Welcome to Cybersecurity



**Instructor:**

**MD Sha Jalal**

Founder of Mission Hackers Bangladesh,  
Trainer at Mission Hackers Bangladesh  
Trainer at BICS

**Certified By:**

Udemy,  
Linux Foundation

**Profession:**

**Ethical Hacker | Security Engineer | Cybersecurity Specialist**  
Dept. of Computer Science and Engineering(CSE) ,University of Chittagong

**Other Skills:**

**Software Engineer | Programmer | Apps Developer(flutter) | Database Designer(MySQL , Oracle ) , Web Developer , Data Analyst**

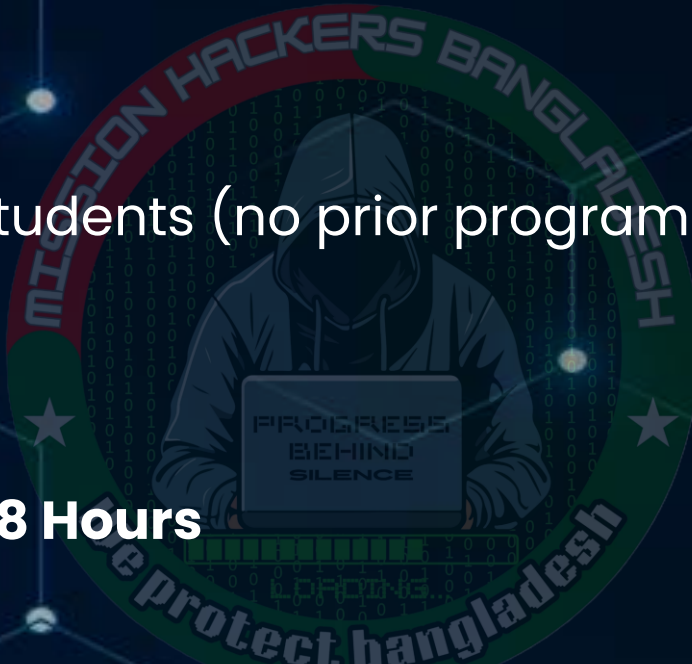
**Programming Language:**

**Python , Java, C , C++ , JS**





# Module Overview



## **Audience:**

**CSE Or Non-CSE** Students (no prior programming required)



## **Total Classes: 25**



## **Course Duration: 38 Hours**



## **Style: 80% Practical, 20% Theory**



## **Level: Basic and Intermediate**





# Module Overview



## Course Structure:

- **Level –1: Basic**
- **Level-2: Intermediate**
- **Level-3: Advanced**



## Box Structure:

- **Box-4: Basic**
- **Box-3: Intermediate**
- **Box-2: Advanced**
- **Box-1: (Selected)**
- **Box-0:(Hidden)**





# Module Overview



## Box Type:

### ➤ Training Box:

Here all training **resources** and Instructor **Guidelines** will be given , **no one** can text or sent any message.

### ➤ SS Box:

Students will Provide **Screenshot** of their **Home works** in this box.

### ➤ Discussion Box:

All students can **discuss about their problems** or any new innovative topic.





# Module 1: Introduction to Cybersecurity and Ethical Hacking



**What is Cybersecurity?**



**What is Ethical Hacking?**



**Cybersecurity VS Ethical Hacking**



**Types of Hackers**








**Legal Implications**



**Cybersecurity Career Paths**



## Module 2-3: Environment Set up and Comandline










-  **Installing Kali Linux and Termux**
-  **File & User Management**
-  **Installing Metasploitable2**
-  **Kali Linux Complete Overview**
-  **Basic to Advanced Linux Commands**

# Module 4-5: Networking Fundamentals

- 
-  **OSI & TCP/IP Model**
  -  **IP Addressing, Mac-address**
  -  **Ports & Protocols**
  -  **Wire Shark deep dive**
  -  **Packet Capture and filtering**
  -  **Malicious Traffic Detection**
  -  **Trace Route**



# Module 6-7: Reconnaissance and FootPrinting

- 
-  **Active & Passive Recon**
  -  **WHOIS, nslookup, dig ,etc**
  -  **Advanced Google dorking**
  -  **Service & OS Detection**
  -  **Information Gathering Tools (Maltego)**
  -  **Nmap Deep Dive**
  -  **Netcat**
  -  **Access Linux machine using netcat**

# Module 8-9: Metasploit Framework



**Msfconsole + msfvenom**



**Meterpreter Session**



**Exploit Selection** ★



**Privilege Escalation**



**Payload Generation**



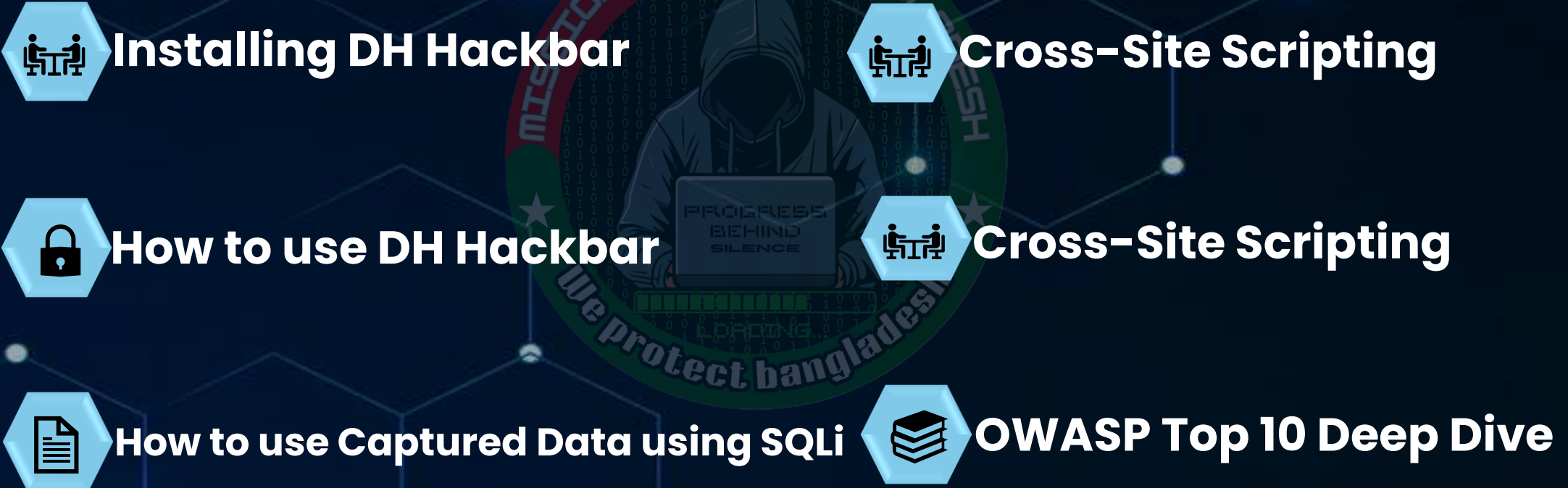
**Complete Overview**



# Module 10-11: Web Application Hacking

- 
-  **What is SQL Injection**
  -  **Hands On Practices of SQL Injection**
  -  **Types of SQL Injection**
  -  **How to Use SQL-Map**
  -  **Explanation of every command**
  -  **Hands On Practices of SQL Injection**

# Module 12-13: Web Application Hacking



# Module 14-15: Web Application Hacking



**Generating Custom Passwordlist**



**Data Tempering**



**Burp Suite Overview**



**Password Brute Forcing**



**Uses of Wordlist in Burp Suite**



**Cyber Attacks**





# Module 16–17: Social Media Hacking



**Port Forwarding and Tunneling**



**Two Factor Bypass Techniques**



**Using Zphisher, Setoolkit**



**How to works Reverse Proxy**



**Custom Phishing Page**



**Phishing Attacks**



**Phishing Campaign**

# Module 18: Wireless Network (WiFi) Hacking



**WPA/WPA2 Cracking**



**WiFi Sniffing (Wifite)**



**Aircrack-ng Suite**



# Module 19: Social Engineering



**Social media Hacking, facebook/gmail  
(only for Educational purpose)**



**Email Spoofing**



**Steganography**



# Module 20: Cryptography Basics



**Hashing vs Encryption**



**Hash Identification**



**Hash Cracking (John the Ripper, Hashcat, Hydra)**



# Module 21-22: Python Programming





# Module 23: Tools & Practice Platforms



## Hack The Box Overview



## Real World Scenarios



# Module 24: Report Writing



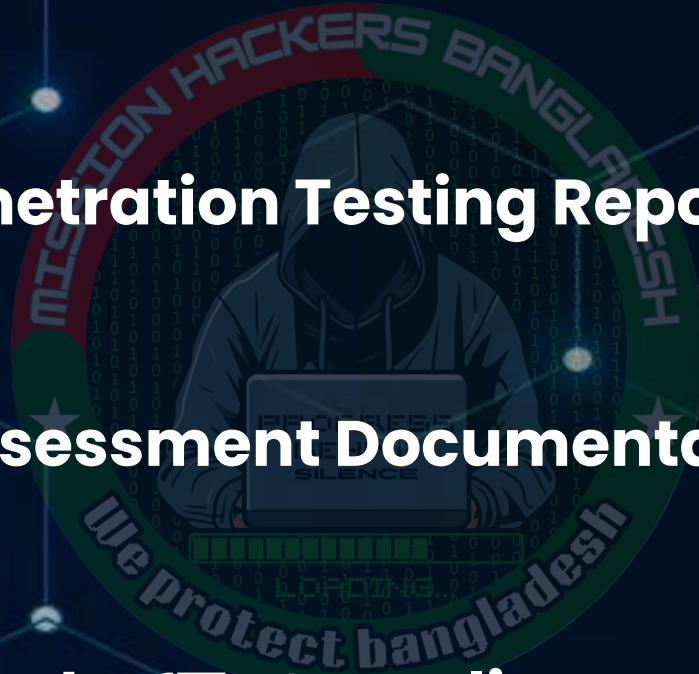
**Professional Penetration Testing Report**



**Vulnerability Assessment Documentation**



**Industry Standards এবং Compliance**



# Module 25: Final and Surprise Class




# Presented By



***Md. Sha Jalal***

Cybersecurity & Ethical **Hacking** Enthusiast  
B.Sc in Engineering(**CSE**), University of Chittagong

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 **Page:** <https://www.facebook.com/Missionhackersbangladesh/>

 **Facebook Profile:** [https:// www.facebook.com/shajalal.cse.cu](https://www.facebook.com/shajalal.cse.cu)

“Empowering the next generation of ethical hackers and defenders”





# The End



# Thank You

