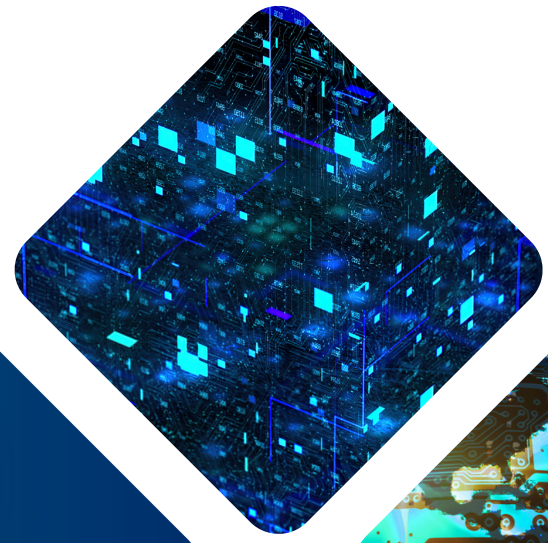
Institute of Business Administration Karachi

Leadership and Ideas for Tomorrow

IBA CICT

Center for Information & Communication Technology



Diploma in

CYBER SECURITY

Empowering leaders for tomorrow's cyber defense landscape

Starting: November 2024

4-Months Diploma

Rs. 150,000/- (+5% SST)

Courses Included:

1. Cybersecurity Standards and Frameworks
2. Cybersecurity Governance and Compliance
3. Ethical Hacking and Penetration Testing
4. Digital Forensics and Incident Response

In collaboration with PKCERT

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Learning Outcomes:

Upon completion of the program, participants will be able to:

- Understand cybersecurity standards and frameworks.
- Implement ISO 27001 ISMS and NIST Cybersecurity Framework.
- Integrate standards into organizational practices.
- Grasp cybersecurity governance and compliance principles.
- Develop effective security policies and incident reporting mechanisms.
- Conduct security audits and ensure regulatory adherence.
- Design and deliver cybersecurity awareness programs.
- Learn ethical hacking principles and legal considerations.
- Perform vulnerability assessments and penetration testing.
- Secure web apps, networks, and counter social engineering.
- Understand digital forensics and incident response roles.
- Acquire, preserve, and analyze digital evidence effectively.
- Address web app vulnerabilities (OWASP Top 10) and perform CIS benchmarking.



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Course topics

1

Cybersecurity Standards and Frameworks

- Introduction to Cybersecurity Standards and Frameworks
- ISO 27001 - Information Security Management System (ISMS)
- NIST Cybersecurity Framework (CSF)
- OWASP Top 10
- CIS Benchmarking
- Implementation of ISMS and CSF
- Integrating Standards and Frameworks into Organizational Practices

2

Cybersecurity Governance and Compliance

- Introduction to Cybersecurity Governance
- Regulatory Compliance
- Security Policies and Procedures
- Security Audits and Assessments
- Security Awareness and Training
- Incident Reporting
- Cybersecurity Governance Best Practices

3

Ethical Hacking and Penetration Testing

- Introduction to Ethical Hacking
- Information Gathering and Reconnaissance
- Scanning and Enumeration
- Exploitation and Post-Exploitation
- Web Application Security
- Wireless Network Security
- Social Engineering Attacks
- Penetration Testing Methodologies

4

Digital Forensics and Incident Response

- Introduction to Digital Forensics and Incident Response
- Computer and Digital Device Forensics
- Windows Forensics
- Steganography and Image File Forensics
- Data Acquisition and Duplication
- Malware Analysis
- Incident Response Planning

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