



Institute of  
Business Administration  
Karachi

Leadership and Ideas for Tomorrow



ReCYP:HER



Center for Information & Communication Technology

# Diploma in CYBER SECURITY

Empowering leaders for tomorrow's  
cyber defense landscape



**Starting: June 2024**



**4-Months Diploma**



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

## Courses Included:

1

**Cybersecurity Standards  
and Frameworks**

3

**Ethical Hacking and  
Penetration Testing**

2

**Cybersecurity Governance  
and Compliance**

4

**Digital Forensics and  
Incident Response**



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Co-funded by the  
Erasmus+ Programme  
of the European Union

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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

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## Course topics

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