# **FACULTY OF**

# **COMPUTING & ENGINEERING SCIENCES**

A chance to learn
How to protect the Networks,
Computers and other Software
Programs from Cyber Criminals







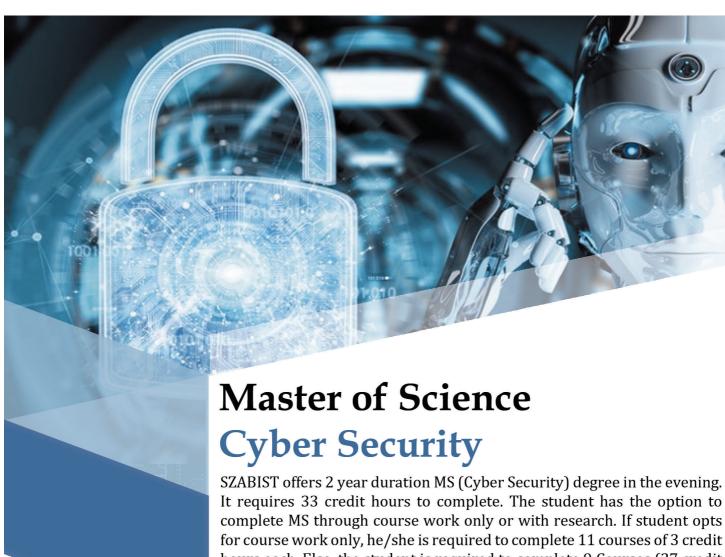
# MS CYBER SECURITY

**95%** of businesses have sensitive data in the cloud

**93%** of IT professionals report challanges in ensuring data privacy

**82%** of the businesses have employees who don't follow data privacy policies

Apply online at: admissions.szabist-isb.edu.pk



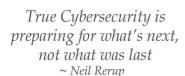
hours each. Else, the student is required to complete 9 Courses (27 credit hours) and a Thesis (6 credit hours).

## **Objectives**

- Recognize and evaluate security requirements and issues in organizations using IT systems.
- Assess cyber security risk management policies to protect an organization's critical information and assets adequately.
- Measure the performance of security systems within an enterprise -level information system to maintain and update an enterprise-level information security system.
- Implement continuous network monitoring and provide real-time security solutions.

## **Eligibility Criteria**

- 16 years of education in a related field with minimum 60%/ marks or CGPA 2.00.
- GAT General/ HAT relevant with min. 50% score.
- The candidate with 16 years of education in following domains are eligible to apply: Information Technology, Computer Science, Software Engineering, Computer Engineering or Electrical Engineering.



*Cybersecurity is musch* more than a mater of IT ~ Stephane Nappo

*Cybersecurity* is a shared responsibility, and it boils down to this: In Cybersecurity, the more systems we secure, the more secure we all are. ~ Jeh Johnson



# **CURRICULUM**

#### **FIRST YEAR**

#### **FIRST SEMESTER**

- Applied Cryptography
- Network Security
- Information Security

#### **SECOND SEMESTER**

- Digital Forensics
- Elective-I
- Elective-II

#### **SECOND YEAR**

#### THIRD SEMESTER

- Elective-III
- Elective-IV
- Thesis (Part-1)

#### **FOURTH SEMESTER**

- Elective-V
- Thesis (Part-III)

#### **CORE COURSES**

- Network Security
- Information Security
- Digital Forensics
- Applied Cryptography

#### **DEFICIENCY COURSES**

- Programming Fundamentals (Core Programming Course)
- Data Structures & Algorithms OR Design & Analysis of Algorithms
- Computer Networks

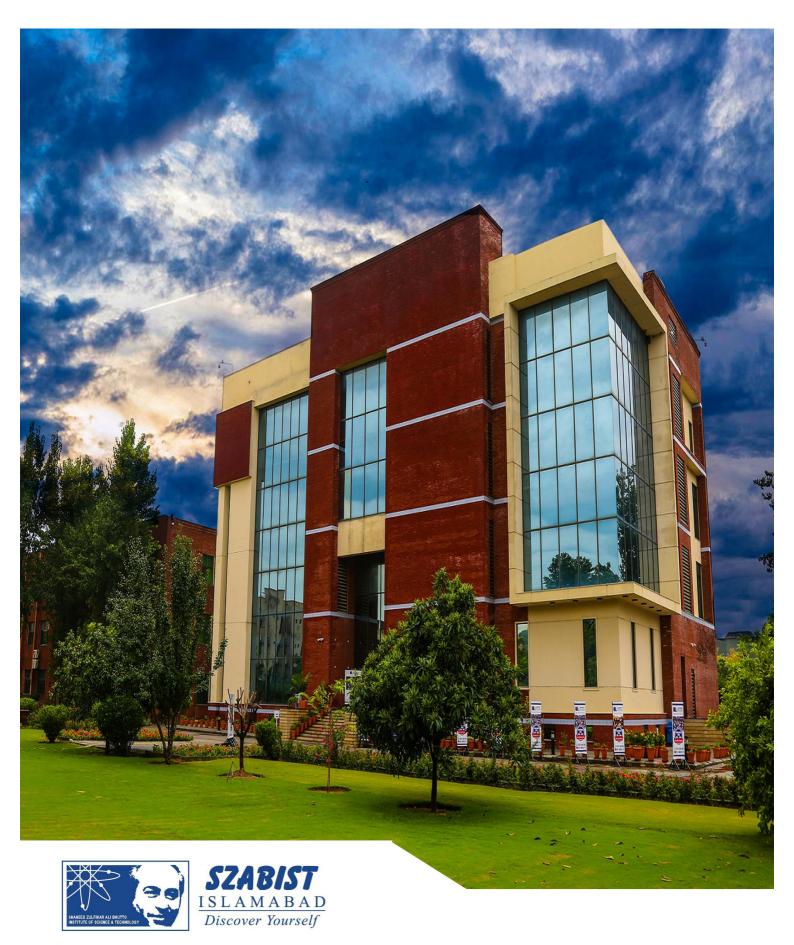
#### **ELECTIVE COURSES**

- Network Penetration Testing and Countermeasures
- Security in Mobile and Wireless Networks
- Ethical Hacking
- Malware Detection and Analysis
- Blockchain and Crypto Assets
- Intrusion Detection and Firewalls
- Reverse Engineering and Malware Analysis
- Security and Privacy for the Smart Grid
- Machine Learning for Cyber Security
- Security Modelling and Analysis of Mobile Agent Systems
- Security in Ad Hoc Sensor Networks
- · Security in Cloud Environment
- Advanced Topic in Cyber Security I
- Advanced Topic in Cyber Security II

#### FEE STRUCTURE

Admission Fee Rs. 20,000
Security Deposit Rs. 10,000
Student Activity Fee Rs. 1,000
ID Card Charges Rs. 150

Fee per Course Fee per Semester **Total**  Rs. 20,000 Rs. 60,000 **Rs. 91,150** 



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