



**SZABIST**  
ISLAMABAD  
*Discover Yourself*

**NEW PROGRAM**

# FACULTY OF COMPUTING & ENGINEERING SCIENCES

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



**ADMISSIONS  
OPEN**

**HEC  
APPROVED**

# MS CYBER SECURITY

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

*93% of IT professionals  
report challenges 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](https://admissions.szabist-isb.edu.pk)**





# Master of Science Cyber Security

SZABIST offers 2 year duration MS (Cyber Security) degree in the evening. It requires 33 credit hours to complete. The student has the option to complete MS through course work only or with research. If student opts for course work only, he/she is required to complete 11 courses of 3 credit 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.

STORAGE  
ANALYTICS  
DEVELOPMENT  
INTERNET  
BIG DATA  
SOCIAL  
USE  
WORLD  
CHALLENGES  
NEW

*True Cybersecurity is  
preparing for what's next,  
not what was last*  
~ Neil Rerup

*Cybersecurity is much  
more than a matter 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

FRAMEWORK  
DATABASE  
SUCCESSFUL  
ARTIFICIAL  
INTELLIGENCE

BY RESULT  
SIZE  
LEARNING  
PRIVACY  
PROCESSING  
MOBILE  
INITIATIVE

# CURRICULUM

## FIRST YEAR

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### FIRST SEMESTER

- Applied Cryptography
- Network Security
- Information Security

### SECOND SEMESTER

- Digital Forensics
- Elective-I
- Elective-II

## SECOND YEAR

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### THIRD SEMESTER

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

### FOURTH SEMESTER

- Elective-V
- Thesis (Part-III)

## CORE COURSES

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

## DEFICIENCY COURSES

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

## ELECTIVE COURSES

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- 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	Rs. 20,000
Fee per Semester	Rs. 60,000
<b>Total</b>	<b>Rs. 91,150</b>





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