

Post-Graduate Programs in Cyber Security

Degree Names

Sl.	Full Name	Short Name	Remarks
1	Master of Science in Cyber Security	M. Sc. (Cyber Security)	18 Credit courses + 18 Credits Thesis
2	Master of Cyber Security	M. Cyber Security	30 Credit courses + 6 Credits Project
3	Doctor of Philosophy	Ph.D.	Program Name: Cyber Security

Admission Requirements

For Master's Degrees

There are two groups who will be eligible for admission for the Master's programs and the admission requirements are as follows.

1. [Group A] 4-year B.Sc. in Computer Science and Engineering (CSE) or Electrical and Electronic Engineering (EEE) or Computer Science (CS) or Computer Engineering (CE) or Electrical and Computer Engineering (ECE) or equivalent field.
2. [Group B] 4-year Bachelor's degree in any other engineering or mathematical science or natural science or business information systems or related field.

For Ph.D. Degrees

The admission requirement for the Ph.D. program is as follows:

1. [Group A] Master's degree in Cyber Security or Computer Science and Engineering (CSE) or Electrical and Electronic Engineering (EEE) or Computer Science (CS) or Computer Engineering (CE) or Electrical and Computer Engineering (ECE) or equivalent field.
2. [Group B] Master's degree in any other engineering or mathematical science or natural science or business information systems or related field.

Degree Requirements

1. For students satisfying Group A entry requirements:

Program	Mode	Courses			Thesis/ Project Credit	Total Credit
		Total Number of Courses (Credit)	Number of Foundation Courses	Minimum Number of Core Courses		
M. Sc. (Cyber Security)	Thesis Based	6 Courses (18 Credit)	0	4	18 Credit	36 Credit
M. Cyber Security	Course Based	10 Courses (30 Credit)	0	6	6 Credit	36 Credit
Ph.D.	N/A	3 Courses (9 Credit)	0	2	45 Credit	54 Credit

2. For students satisfying only Group B entry requirements:

Program	Mode	Courses			Thesis/ Project Credit	Total Credit
		Total Number of Courses (Credit)	Number of Foundation Courses	Minimum Number of Core Courses		
M. Sc. (Cyber Security)	Thesis Based	6 Courses (18 Credit)	2 (Audit course)	4	18 Credit	36 Credit
M. Cyber Security	Course Based	10 Courses (30 Credit)	2 (Audit course)	6	6 Credit	36 Credit
Ph.D.	N/A	3 Courses (9 Credit)	2 (Audit course)	2	45 Credit	54 Credit

NOTES:

1. Audit courses may be waived by BPGS depending on the background of a student upon application.
2. The remaining required courses (i.e., courses other than the Foundation courses and Core courses) can be taken from any PG courses.

3. The thesis/project must be on a topic relevant to the program area.

Courses

Foundation Courses

1. CSE 5401: Computing Foundation – I
2. CSE 5601: Computer Networking and Operating Systems

Core Courses

1. CSE 6207: Advanced Dependable and Fault-Tolerant Computer Systems
2. CSE 6608: Blockchain Technologies and Systems
3. CSE 6807: Elements of Cryptography
4. CSE 6813: Network Security
5. CSE 6814: Cloud Security
6. CSE 6815: Biometric Security
7. CSE 6816: Security in IoT
8. CSE 6817: Software and Application Security
9. CSE 6818: Digital Forensics
10. CSE 6819: Human Factors in Cyber Security
11. CSE 6820: Industrial Cyber Security
12. CSE 6821: Ethical Hacking and Penetration Testing
13. CSE 6822: Malware Analysis
14. CSE 6823: Information Security Management