Postgraduate Diploma in Cybersecurity

Course Outline

PROGRAM OVERVIEW

Cybersecurity is a pressing contemporary challenge set to grow in complexity. Recognizing its significance, organizations worldwide prioritize it on their agendas. The demand for skilled cybersecurity professionals is high, prompting the creation of programs like the Post Graduate Diploma (PGD) in Cybersecurity.

Developed in collaboration with industry experts, this program equips students with essential security skills, preparing them for various roles in national and international organizations. Through a blend of theoretical and practical learning approaches, including case studies and projects, the PGD ensures comprehensive preparation for the field. Aligned with Bangladesh National Qualifications Framework (BNQF) standards, this program offers a competitive edge in the cybersecurity landscape for both newcomers and professionals.

PROGRAM OUTCOMES

Once the course is successfully completed, the students will be able to:

- Evaluate and recommend innovative cybersecurity strategies that provide secure solutions for organizational processes and applications.

- Optimize the effectiveness of information security in a business environment through risk mitigation, and auditing of information systems.

- Design and implement vulnerability assessment procedures to find and solve existing security issues in a network through monitoring and analyzing different attackers' tactics, strategies, and techniques.

- Design and implement cybersecurity solutions and protocols in compliance with current security policies, ethical standards, and industry regulations.

- Implement and evaluate security policies and strategies by collaborating in cybersecurity projects as a multidisciplinary team member to deliver effective security solutions to the clients.

- Communicate security protocols, policies, audit results and related documentation to any level of the organization.

- Resolve security issues of the communication networks using a top-down approach through analyzing overall networks and their interconnected components.

- Develop and apply strategies for personal, career, and entrepreneurial growth to enhance work performance and maintain currency with the industry.

ADMISSION REQUIREMENTS

- Candidate must have either a Four-year Bachelor's degree/ Master's degree from any recognized University.

- Candidates must meet all the admission requirements.

COURSE CURRICULUM

Semester I

PGDCOPS1	Network Security Infrastructure and Introduction to Cybersecurity
PGDCOPS2	Ethical Hacking and Network Defense
PGDCOPS3	Hacking and Digital Forensic Investigation
PGDCOPS4	Disaster Recovery

Semester II

PGDCOPS5	Designing, Implementing and Managing Secure Network Systems
PGDCOPS6	Project Management in IT Security
PGDCOPS7	Information System Auditing
PGDCOPS8	Internet of Things Security (IoT)

Semester III

PGDCOPS9	Cloud Security
PGDCOPS10	Incident Response and Information System Security Planning, Design, and Implementation
PGDCOPS11	Industrial Attachment
PGDCOPS12	Project

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