

Cyber Security Master Program

1. Program Objectives

The educational objectives of the degree program are:

1. Acquire the necessary theoretical and practical knowledge and skill in the field of cyber security.
2. be able to identify the various IT security models and architecture and the risks associated with them during the transfer, processing and storage of information.
3. Develop solutions to protect computer networks and information from threats and intrusions, and provide comprehensive solutions.
4. Enable graduate students in cyber security to prepare and formulate long and short security strategies and policies term of the institution.
5. Develop the social and psychological skills of graduate students in cyber security and motivating them to work effectively within one team and contribute positively to society.

2. Intended Learning Outcomes (ILOs):

Upon completion of the degree program, students will be able to:

- PLO1: Understand the necessary theoretical and practical skills and knowledge in the field of cyber security. (K1)
- PLO2: Understand the principles of cyber security within a computing environment and develop the skills necessary to evaluate, design and implement security technologies and systems. (K2)
- PLO3: Analyze and evaluate multiple risks, analyze persistent threats, and deploy countermeasures. (K3)
- PLO4: Analysis of electronic incidents and be an assistance in recovering the lost information. (K4)
- PLO5: Design, implement and evaluate appropriate systems solutions in a cyber security context. (S1)
- PLO6: Implement the protection of sensitive information, networks and assets for the organization. (S2)
- PLO7: Implement continuous network monitoring and provide real-time security solutions (S3)
- PLO8: Conduct research on the topic related to cyber security. (S4)
- PLO9: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.(C1)
- PLO10: Be able to communicate effectively with a team member involved in cyber security activities. (C2)

