

Bachelor's Degree Program Objectives:

1. Provide students with the theoretical knowledge, competencies, and practical skills necessary in the field of information security and cybersecurity.
2. Prepare students to be qualified and specialized human cadres in professions related to analysis, design, development, operation, management, and control. They can also determine the safe requirements for systems and software in any institution or company.
3. Enable students to adapt to the rapid future developments in the field of information security and cybersecurity. This is by providing them with solid foundations in its basic concepts, principles, methods, and methodologies.
4. Prepare students to serve their communities, whether they are individuals, groups, or institutions. This is by ensuring the provision of safe information, programs, and applications for them.
5. Enable students to develop research skills, teamwork, problem-solving, professional advancement, and continuous independent learning for life.



Teaching:

The department provides graduates with high qualifications through high mastery of information security and cybersecurity, where the department has an excellent organizational structure that includes the teaching, technical and administrative staff. That is based on the best and latest curricula and the most sophisticated laboratories. In addition, a positive environment that helps support the teaching process using the capabilities of a high-quality technology for implementing the information security and cyberspace program. Teaching various subjects that include practical duties implemented throughout the semester contribute greatly to supporting innovation and improving performance by studying and developing work in the information technology sector.

Information Security and Cybersecurity:

The creation of the Information Security and Cybersecurity Department came as a result of the development in the labor market and the trend towards employing information technology in the service of different sectors. It also aims to fill the growing need to prepare specialists to protect the different systems of institutions. This is through a competitive program was produced at the local and global level. The strategy of this department keeps pace with the rapid requirements and global development in the field of information security, cyberspace. Moreover, the needs of the labor market, where the study plan and the department's curricula have been built in line with all that is new in accordance with the international recommendations ACM and IEEE. The teaching program for each course is subject to quality assurance standards. There is also close and continuous follow-up by the department for all semester work and for all academic subjects. The Department of Information Security and Cybersecurity welcomes students who wish to work in the field of this specialization through problem solving and the ability to work together to solve complex problems.

Vision:

To excel in teaching, learning, scientific research, and community service according to intentional standards.

Mission:

- Preparing graduates in the field of information security and Cybersecurity who are well-equipped with knowledge, skills, and values. They should have a local, regional and international presence. The graduates also gain the drive for life-long learning and the ability to keep pace with the requirements of the times.
- Upgrading scientific research and postgraduate studies and stimulating creativity programs under international standards.
- Building a fruitful partnership with the community.

Goals:

The department reaches a prominent position locally, regionally and internationally and the research activities are supportive of the growing technological development.

Values:

- Fairness: Dealing fairly with all and respecting individual's value, dignity and legitimate freedom.
- Transparency: Dealing clearly in all Faculty procedures with students, academic and administrative staff.
- Integrity: Full compliance with professional morals and ethics.
- Belongingness: Having a sense of responsibility toward the University, local community and nation.
- Co-operation: Group work among all Faculty staff and students in all Faculty procedures.
- Innovation: Accommodating innovative ideas and solutions in teaching and learning as well as academic research fields focusing on the area of Information Technology and communications.
- Professionalism: The ability to demonstrate knowledge, skills and capability in the area of Information Technology and communications.

Philadelphia University Faculty of Information Technology/ Information Security and Cybersecurity Bachelor Program



Evaluation:

The department follows several assessment methods of student that are announced to students at the beginning of the semester by describing the module syllabus. The method of evaluation of the subjects stems from the level of the material and its specifications, so the evaluation types take the following forms:

1. The traditional exam (written).
2. Class work of the module.
3. Oral tests.
4. Quick tests.

The department modules include the preparation of reports by the students. The group assessment is represented by the research project by working as a team for more than one student in order to achieve an integrated project.



Job Titles for Computer Science Graduate:

There are a large number of jobs that a graduate of this specialization can compete for, including:

Information Technology Security Officer, Network and Information Security Engineer, Director of Wireless Network Security, Specialized in Cyber Crime Analysis, Security Systems Analyst and Information Quality Assurance, Security Consultant and Software Auditor, Information Security Officer, Penetration Test, Forensic Analyst, Cyber Security Consultant, Accident and Threats Manager, Software Developer, Information Technology Project Manager, Cyber Crime Specialist, Computer or Digital Forensic Investigator.

Academic Advising:

All student affairs can be managed by referencing to the student's guide, as well as by the student's academic advisor or the head of the department for additional details regarding the teaching of the programs, and e-mails can be used to send any requested queries.

Research:

The department encourages scientific research. The theoretical and applied research are the focus of scientific research in the department. The Interest in scientific research greatly helps to support learning outcomes.

The department assists researchers in obtaining financial support for publishing and allows faculty members to participate in and attend local and international conferences and seminars. The University's annual budget is allocated to support researchers; that covers travel expenses, publishing, references and other requirements and setting up exhibitions for student projects.

Bachelor of Information Security and Cybersecurity:

The student in this department is subject to the laws and regulations adopted by the higher education and private universities. Students who receive a minimum of 60% are eligible to be accepted in the program for all branches of the Tawjhi exam except the literacy branch.

The study system in the Information Security and Cybersecurity Department depends on the credit hours system as each academic year consists of two semesters and a minimum of three years. The module covers the practical and theoretical aspects through theoretical and practical lectures. The program qualifies the student to start the practical training in the third year and the research project in the final year.



Research Project:

The research projects of the department are oriented towards the objectives of the department through the application of cognitive, mental and applied skills in areas of specialization such as the use of appropriate tools for building software, applying advanced databases or multimedia, mobile computing applications and information security.



PROJECT
GRADUATION

Staff members and Students:

There are three specialized faculty members as well as administrators and technicians. Teaching is the primary concern of faculty members. The faculty staff members have the solid foundations of supporting students during study and after graduation. All of the faculty members have their degrees from prestigious universities. The Department of Information Security and Cybersecurity encourages the recruitment of faculty members from distinguished universities. This contributes effectively to increasing the intellectual and social awareness in the department through the exchange of knowledge between staff members and students. The department allows for the initiation of research partnerships and exchange of students with European universities through Erasmus+ program. The department aims at creating a lively social atmosphere that includes students and faculty members and creates an active environment for teaching learning through conducting various seminars and field visits to scientific centers in the Kingdom.

Practical Training:

Especial attention is given to the practical training in the Information Security and Cybersecurity department. In addition to the most of the modules containing practical aspects in the third and fourth year of study, The Department of Computer Science provides its graduates with practical training in the market.

After the student obtains the basic skills and concepts required for computer science and different fields, he is directed to the specialized labor market for the purpose of training and to view the requirements and mechanism of working and to benefit from the practical experience available in the labor market.

The department has established extensive relationships with companies with an interest in Information Technology in the labor market, where students are urged to make the most of the period of practical training through part-time work in the institutions concerned. The practical training material qualifies the student to choose the research project in the fourth year in accordance with his skills and requirements of the labor market.

