

General Prospects

Philadelphia University was established in 1989. The campus of the university is located in a beautiful spot north of Amman in the middle of a picturesque countryside. The university consists of eight colleges which cover a wide spectrum of modern specializations. The main attention and trend in the university's strategy is to give greater role to the colleges with advanced technological specializations with strong emphasis on practical training so that graduates can possess the required knowledge and skills to be able to be integrated in the future work place easily.

The university is provided with all modern and necessary facilities to support the academic teaching process. The classes are fully furnished and each college is also provided with modern laboratories and workshops which enable student to gain the practical skills needed. There is an excellent central library fully connected with other regional and international libraries.

There is a central computer center with all advanced information services. The aim of the center is to provide additional training and access opportunities to both students and staff. The university is also provided with good recreational facilities for both students and staff to develop their hobbies and outdoor activities.

Faculty of Engineering and Technology

Vision:

Achieve excellence in the fields of engineering and technological academic teaching, scientific research and support local society.

Mission:

- Conduct academic teaching and training based on sound mathematical and scientific fundamentals and engineering and technological skills.
- Support scientific research and postgraduate studies with emphasis on entrepreneurial and innovative skills.
- Encourage continuous learning and professional development to graduate qualified engineers able to work effectively in the local and regional work market and contribute to elevate their engineering and technological levels.

Objectives:

- Graduate qualified engineers to work and interact with the local and regional engineering environment.
- Graduate technicians with technical skills that enable them to interact with modern technology.
- Establish and develop engineering and technological programs which address the needs of the local and regional markets.
- Develop an engineering and technological environment that emphasizes on continuous development and innovation.
- Support applied scientific research.

Specializations

The faculty was established in 1991 and it occupies an area of 5400 m² and is provided with 34 laboratories of different functions and specialization in addition to mechanical and electronic workshops. The total student enrollment is around 1500 with students to staff ratio of 18:1. The faculty consists of the following department:

- Electrical Engineering.
- Renewable Energy Engineering
- Alternative Energy Technology
- Mechanical Engineering.
- Computer Engineering.
- Mechatronics Engineering.
- Communication and Electronic Engineering.
- Architecture Engineering.
- Civil Engineering

The Total Number of Graduates up to date is 4340.

Electrical Engineering

The department main emphasis is on the heavy current of electrical engineering which is mainly addressed by the subjects: power system, power electronics, machines and control plus relevant electronic and computer applications. Graduates should be able to practice the operation, maintenance and design of power production and distribution, and management of electrical projects.

Mechanical Engineering

The main emphasis is on mechanical industrial engineering and mechanical building services. The core subjects include static and dynamic, applied mechanics, thermodynamics, heat transfer, computer aided design, air conditioning. Graduates should be able to operate and maintain mechanic systems in buildings and industry to design and supervise projects implementation.

Computer Engineering

Its specialty is the engineering concepts of computer hardware and software. It covers computer system design, interfacing design, algorithmic procedure, design and implementation in real time applications, network design, security and management, software engineering and soft-computing applications. Graduates can deal with software and hardware design, computer networking and computer maintenance.

Mechatronics Engineering

The department integrates mechanical, electronics, and control engineering concepts plus relevant computer applications. It covers electrical topics, control, mechanical design, system interface, micro controller and computer programming applications. The graduate should be able analyses, design and maintain intelligent computer controlled systems such as robots, FMS and modern automated systems.

Communications and Electronics Engineering

The emphasis of this department is on the engineering aspects of the advanced electronics and communications. The core subjects taught in the department are: analog and digital electronics, analog and digital communication systems, DSP, microwave engineering, communication networking systems, optical communication, and mobile applications. Graduates should be able to operate and maintain electronic and communication equipment, design and implement circuits and systems.

Architecture Engineering

It offers a well-rounded diverse program that prepares the student to approach, evaluate and complete the architecture engineering analysis, planning, design and construction. It emphasizes the fundamentals and design of supporting mechanical and electrical systems along with architecture design, structural design, and construction.

Civil Engineering

It covers core courses in the engineering of construction, hydrology, environment and highway engineering. The modern specialized laboratories in the department ensure the coordination between the theoretical and practical aspect of the academic teaching. This provides the opportunity to gain and develop engineering skills with emphasis on applied engineering projects.

Renewable Energy Engineering

The field of renewable energy is vastly gaining importance and hence Philadelphia University has established a research center for renewable energy in 2012. In 2017, the renewable energy engineering department was established to graduate engineers in this important futuristic specialization. The department covers wind energy, solar energy, geophysics energy and biomass. The specialization in the department emphasizes on the practical skills to handle and maintenance advanced and developed modern technologies.

Alternative Energy Technology Department

The alternative energy technology is a rising and developing field of green energies. The department graduates are highly skilled manpower in design, implementation, test, and maintenance technological projects that produce clean energies. Thus, specialization helps to reduce pollution and protect the environment in addition to provide cheap sources of energy.

Training

The training of students is carried out in two phases. The first phase is the usual training in the laboratories and workshops in addition to the graduation projects applications. The second phase of the training is in established specialized companies, factories or services section. The trainers are granted internationally recognized certificates from international bodies such as: AutoCAD, BIM, MatLAB and others.

Admission Requirements

Admission requirements to the faculty are as follows:

- An average of on less than 80% in the Tawjihi (Scientific stream) or the equivalent for Jordanian applicants for Engineering programs and 60% for Technology programs.
- A marks average of no less than 65% for non-Jordanian applicants.
- Graduates of industrial secondary schools may also apply for admission.
- Graduates of community colleges may also apply if they score an average of no less than 70% in the Comprehensive Examination.

Study System

- The curriculum comprises 160 credit hours for engineering programs (Except Architecture Engineering; 165 credit hours) and 132 credit hours for Technology programs.
- The academic year consists of two compulsory semesters:
 - Fall semester: October –End of January.
 - Spring: February- End of June.
 - Summer semester (optional): July- End of August.

Academic Activities and Events

The faculty has hosted a number of conferences in collaboration with international institutions. It also held semesters and short-term courses in cooperation with the consultations center in the university. The faculty staff publish research papers and monitor and supervise student's research projects. Faculty staff also attend local and international conferences and seminars.

Special Benefits

These come in the form of fee reduction:

- 20% for sport and athletics distinction.
- 50% for students who gain an average of 90% + in the tawjihi (for first year).
- 50% for students who gain an average of 90% + during study period .
- 15% for brothers and sisters.
- 10% for grandparents and uncles.



For More Information

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Philadelphia University

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Fully Accredited University

Established 1989- Jordan