The Programme Outcome

1. Knowledge of the theoretical foundations of computer science and a broad knowledge of Information Technology.
2. Knowledge of fundamental areas of computer science which include programming languages, operating systems, databases, computer architectures, and software engineering.
3. The ability to identify problems and develop solutions that address the needs of the local society with professionalism.
4. The ability to research a new subject and identify the problems which need more elaboration and investigation.
5. The ability to apply the mathematical and computer science skills learned at the undergraduate study to solve new problems.
6. An ability to analyze, design, and implement a given specification in this area.

Teaching

The Department turns out highly qualified graduates with sound understanding of Computer Science. The excellent framework we have including the Staff, the most modern curriculum, top-notch labs, such as multi-media labs and web-based labs, in addition to a dynamic environment all contribute to an outstanding teaching outcome for our Computer Science programme. Different Case-Studies as part of the students' practical work are implemented throughout the semesters. Offering both innovative and state-of-the-industry undergraduate programme, the CS department is committed to producing the next generation of IT professionals. Different Case-Studies as part of the students' practical work are implemented throughout the semesters. Offering both innovative and state-of-the-industry undergraduate programme, the CS department is committed to producing the next generation of IT professionals.

The Department of Computer Science

The Computer Science (CS) Department at Philadelphia University was founded in 2003 as one of the leading Computer Science (CS) Departments offering bachelor degree in Computer Science in Jordan. This newly established undergraduate programme addresses the growing need for professionals capable of integrating computing into organizations and help them to compete internationally. The strategies of the Department are set to meet the demands of a rapidly evolving job market. The curriculum is regularly reviewed and enhanced to maintain quality of teaching and relevant content. The department solicits students who like to work with computers, who enjoy problem solving, and who like working in teams to solve complex business problems.

Why Computer Science?

Computer Science involves the design, development, and maintenance of computer software systems that support all aspects of computer applications and development. Students learn the fundamentals of software application development, database administration, and network deployment. Special emphasis is placed on theoretical basis for computer systems, systems integration and project management. The focus throughout the programme is on using information technology to add value to organizations. The coursework prepares the student for a career in computer science, including both theory and practice. Students gain extensive experience with the technology and practices in use within contemporary computing environments. Graduates are well prepared not only for employment in software development but also for advancement to C-level positions such as IT managers, Chief Technology Officer (CTO), or Chief Executive Officer (CEO).

Goals of the Computer Science Program

1. To have a broad knowledge of Information Technology and substantial knowledge of main areas of computer science.
2. To apply scientific and engineering methodology to the design, implementation, analysis, and evaluation of computer-based systems.
3. To prepare graduates for both immediate employment in computer science-related fields and for admission to graduate programmes in computing.
4. To develop the students’ capacity to learn and adapt to the continuous evolution of computer science and information technology.
5. To provide students with the necessary practical experience through the implementation of different case-studies as part of their practical work.
6. To foster an environment that encourages critical thinking, creativity, and ethical behaviour.

Contact Information

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The Department provides research grants and financial support to publish research work, enabling staff members to attend local and international scientific conferences and seminars. Five percent of the total annual budget of the University is allocated for funding research by staff and students. The University also offers an annual subsidy for research projects, which includes expenses for travel and seminar expenses. Five percent of the total annual budget of the University is allocated for research by staff and students. They have to be prepared to understand the underlying theory. Students will also need to expand the knowledge and skills needed to manage and lead in a work environment.

Undergraduate Degree Program
Entry to Computer Science degree programmes is governed by regulations issued by the Higher Education Council for private universities (at least 70% on the Tawjih exam (scientific stream)).

Structure Of Undergraduate Degree Program
Teaching is structured according to modular scheme and takes the form of a combination of lectures, tutorials and practical classes. Each academic year comprises of two semesters and is referred to as a ‘Year’, i.e. Years 1, 2, 3, and 4. The degree programme enables students to undertake professional training in the 3rd year, and a project in the final year.

Year One
Covers the introduction to the subject and requires no prior knowledge or experience in computers. It provides an introduction to fundamental disciplines and skills through lectures, tutorials, individual and group work.

Year Two
Students in year 2 are introduced to different programming Paradigms and the study of software and hardware systems. The first and the second year classes are considered introductory classes.

Final Year Project
The ultimate goal of undertaking project is to demonstrate that student is capable of independent work and group work. It also provides mechanism to consolidate relevant material taught in the undergraduate programme and allows its application to the solution or analysis of a particular problem. The new attitude for the final year projects is to stress on the application of CASE tools, Advance databases and multimedia, Fourth Generation Languages, scientific research projects, computer science education packages, and different Database Packages in all the stages of the Final year project. New programming environments such as Open Source Programming, .net programming and Open GL are encouraged. Scientific research based project are also highly recommended specially for student with intentions to join graduate schools.

Assessment
Assessment is done through different ways and is declared at the beginning of the semester through the distribution of a well formulated syllabus that has common format for all modules. Arrangements for the assessment of each module are set out in detail in the rules for progression between years. And the final degree classification is given in the programme regulations and module specifications. Assessment may take several forms, e.g. traditional written examinations, coursework, tests and oral presentations, as appropriate. In some modules, students are asked to use the internet to retrieve related material and organize reports and documents. At the Computer Science Department, great emphasis is put on the practical part of the module. Projects are a must in most of the program modules. The skills associated with working in teams are learned and assessed in group projects.

How to Apply
Prospective students are advised to consult the edition of the University’s undergraduate handbook relevant to their intended year of entry. They can also contact the head of the department who will advise and give further details about the teaching programme. Students who have access to internet are advised to consult the department’s website and send e-mails or any types of inquiries to the Department head.

Year Three
Studies in year 3 expand the topics introduced in year 2 to provide an opportunity for professional training courses. These are considered intermediate level classes.

Research
Research is highly encouraged at the department of the Computer Science. Research covers several aspects of theory and application, with strong emphasis on artificial intelligence, fuzzy logic, neural networks, security issues, Net-centric computing, decision-support systems and many other subjects. In the fields of IT, it is crucial to keep up the research and to utilize its outcomes in teaching.