Department of Technical computer system

Brief on department:

The Computer Systems Department was established in 2001, and it was established in the name of the Computer Systems Department since 2002-2003, after which the name was updated to become the Computer Systems Department, to be in line with the vision, mission and goal that the department achieves. The department accepts students of the scientific branch with a two-year summer training period. two months.

Vision:

The department aspires to distinguish through an academic program that achieves international standards in the field of computer system technologies, which helps to prepare qualified and trained competencies and technical cadres qualified to carry out data entry, operate systems and implement application programs Participating in the design and development of systems and software, and relying on the e-learning system and electronic educational platforms (google classroom) to give lectures, register electronically, and take examinations electronically.

Message:

The message Creating a technical administrative education that adopts modern methods in preparing qualified graduates with high skills and sufficient experience to ensure high quality in the outputs achieved in quantity, quality, thought and performance in light of the availability of the elements of rapid response to technical developments and to the surrounding environment variables, in order to achieve an outstanding compatibility with the needs of the market and society.

Target:

The department aims to prepare human cadres possessing technical qualifications to enable them to enter the labor market efficiently, as well as preparing qualified technical cadres in various computer and information technology sciences and disciplines that meet the requirements of work in ways Using modern technical methods to serve the community by communicating with the official and semi-official departments, by focusing on the software applicable in these departments, as the curriculum is updated accordingly.

Description of the graduate work

1. Run and use various ready-made applications.
2. Software compilation and maintenance.

3. Operating network operating systems and using various network and Internet applications.
4. Website design and management.
5. Analysis and design of database systems.
6. The ability to keep pace with the labor market

Objectives of the academic program:

There is a set of skills, knowledge and preparations that must be reached to achieve the objectives of the academic program, which are:

• Technical knowledge Providing basic knowledge in the principles of computer systems techniques by learning the basics of programming and how to design websites and connect networks in addition to methods and methods in computer maintenance and its accessories.

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• Technical skills Develop the basic skills needed in the implementation and design of laboratory projects, in addition to developing the ability to connect networks and address problems that occur using the latest software used at the global level.

Communication skills Develop the ability to organize and present information effectively, whether orally, in writing, or by using video and audio means of communication.

• Preparing for post-diploma studies Preparing the graduate to be successful in completing his scientific career by obtaining certificates after the technical diploma.

• Preparing for the profession Providing broad attention to the problems that arise in professional practice, including teamwork, leadership, occupational safety, ethics, service and economics.

The skills that the graduate acquires:

1. The student's ability to operate and use various ready-made applications.

2. The student's ability to assemble and maintain the computer and its accessories.

3. The student's ability to write and maintain programs.

4. The ability to design software that serves the community and update it as needed.

5. The ability to identify and correct errors that occur when implementing programs.

6.The ability to use modern technological applications and tools to accomplish the necessary tasks

Graduation requirements

Students are required to successfully complete (18 Subjects (65 hours) for the two years in addition to summer training (270 hours), for the total academic hours to be 2220 hours.

The program will be taught in Arabic and English.
Besides the campus, online lectures and textbooks will be provided in the subject area to help students understand basic concepts of computer systems. The evaluation of each subject may include daily activities and writing reports for practical programs, implementation and discussion of practical programs in the laboratory, daily examinations, quarterly and final exams.

1. Daily activities and writing reports for practical programs.

2. Writing project reports.

3. Evaluation of practical programs in the laboratory.

5. Daily exams.

6. Quarterly exams.

7. Final exams.

Study Materials for the First Stage

Subject Name	Credit Hours	Theoretical	Practical	Number of Units
C++ Programming	5	2	3	10
Algorithms	3	1	2	6
Computer Architecture	5	2	3	10
Computer Maintenance	5	2	3	10
Application Packages	5	2	3	10
Mathematics & Numerical Analysis	4	2	2	8
Advance Statistics	3	1	2	6
English conversation	1	1	---	2
Human Rights	2	2	---	4

Study Materials for the Second Stage

Subject Name	Credit Hours	Theoretical	Practical	Number of Units
Data Structure	5	2	3	10
Data Base	5	2	3	10
System Analysis	3	1	2	6
V.Basic Programming	5	2	3	10

Networks	3	1	2	6
Operating Systems	4	2	2	8
Web sites Design	3	1	2	6
English conversation	1	1	---	2
Research Project	3	1	2	6