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College of Computer and Information Sciences

تأسيس
راسخ

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Computer and its application techniques have seen tremendous progress in recent years, this rapid development in the Kingdom of Saudi Arabia and the need for technologies and modern serious resulted in growing demand for specialized personnel in this area whom able to apply a fundamental role in all institutes private and public institutions and governmental organizations.

Because of the need for a national human resources in Computer Science, King Saud University, has been approved to establish two academic program in the academic year 1402-1403 M:

- Computer Science program in the College of Science.
- Computer Engineering Program in the College of Engineering.

Then the College of Computer and Information Science approved as a separate college in King Saud University by the royal order with the released number 7/1558 in 19/5 / 1404 M and started the first academic year in 1404-1405 H.

Vision

World-wide excellence and leadership in research and education in computing and informatics.

Mission

To advance the frontiers of knowledge and to prepare creative minds in computing disciplines with commitment to serve the community in order to participate in moving towards a knowledge-based economy through developing an environment that stimulates excellence, creativity, and innovation in education and research.

Objectives

- Maintaining excellence in the educational experience.
- Producing innovative scientific research of a world-class level.
- Strengthen the competitiveness of graduates.
- Improving the performance of faculty members.
- Support the continuous development through national and international partnerships.
- Enhancing the role of the college and its impact on the local community.

Strategic Plan of the College of Computer Science and Information

The proposed "Strategic Plan for the College of Computer Science and Information" aims to develop a coherent and comprehensive program and implement it over the next five years to develop the College of Computer Science and Information and promote it to the ranks of educational institutions in the world. Through this plan, the College aims to achieve six basic objectives:

- Maintaining excellence in the educational experience.
- Producing innovative scientific research of a world-class level.
- Strengthen the competitiveness of graduates.
- Improving the performance of faculty members.
- Support the continuous development through national and international partnerships.
- Enhancing the role of the college and its impact on the local community.

Executive Plan

In order to define these objectives, the Strategic Plan included a review of the College's vision, mission, values and analysis of its strengths, weaknesses, threats and opportunities. To achieve these goals, the Strategic Plan has set for each objective a set of initiatives and implementation steps. In order to measure the extent to which these objectives have been achieved, the Plan has developed a set of performance indicators for each target and for each initiative.

Academic Programs

The College offers 10 academic programs in different stages.

Bachelor Programs

- Bachelor of Science in Information Technology (female students only).
- Bachelor of Science in Computer Science.
- Bachelor of Science in Information Systems.
- Bachelor of Science in Software Engineering.
- Bachelor of Science in Computer Engineering (for male students only).

Master Programs

- Master of Science in Information Technology (female students only).
- Master of Science in Computer Science.
- Master of Science in Information Systems.
- Master of Science in Software Engineering.
- Master of Science in Computer Engineering (for male students only).

PhD

PhD in Computer and Information Sciences (Information Systems, Computer Science, Computer Engineering).

Information Technology

▪ **About IT**

Information Technology (IT) is the umbrella of all computing disciplines (computer science, information systems and software engineering). It focuses on the practical part of computer science, where it provides and produces high-quality software solutions.

▪ **Career Opportunities**

The program will provide broad coverage of Information Technology field and concentrations that will enable graduates to fill such positions as:

- Programmer /Application Developer.
- Systems/ Database Analyst 3.
- Software and Quality Engineer / Tester Engineer.
- Database Designer / Developer / Administrator.
- Security Administrator/ Manager / Auditor.
- Web Administrator / Developer.
- Project Manager.
- Network Administrator.
- Researcher.

Computer Science

▪ **About CS**

The recognition of the world as one open market and the advent of knowledge-based society made the competition global and the talent mobility increasing. The BSc. Program in Computer Science has been designed to improve the competitiveness of the graduates by developing their professional skills with a clear commitment to the ethics of the discipline. The BSc. Program nurture a culture of team work, entrepreneurship, leadership and the sense of society responsibility.

▪ **Career Opportunities**

Graduates from the CS program will have various career opportunities in the Computer Science field and IT industry including, but not limited to the followings:

- Design and build applications for different devices and networks based on users' needs.
- Develop effective ways to deal with computer issues, such as:
 - Design, develop and administrate database.
 - Send data via networks.
 - Provide creative solutions to deal with the problems of computer security.

Information System

▪ **About IS**

The information systems Bachelor's program is considered a bridge between computer science specializations and organizational and administrative fields whereby a student gains knowledge and acquires skills necessary to analyzing, designing, developing, and operating information systems and then utilizing them in any type of public or private organizations.

▪ **Career Opportunities**

The need for highly skilled IS engineers is growing day after day. Graduates from the IS program will have various career opportunities in the information systems field and IT industry including, but not limited to the followings:

- Information Systems Analyst.
- Information Systems Developer.
- Information Systems Project Manager.
- Information Systems Consultant.
- SERP Implementation Specialist.
- Database Administrator.
- Database Developer.

Software Engineering

▪ **About SW**

Software Engineering (SWE) is a computing as well as an engineering discipline: it applies the principles of computer science, mathematics, and engineering to achieving high quality and cost-effective solutions to software problems in a systematic, controlled, and efficient manner.

▪ **Career Opportunities**

The need for highly skilled software engineers is growing day after day. Graduates from the SWE program will have various career opportunities in the software and IT industry including the followings:

- Software architect.
- Software designer.
- Software systems analyst.
- Software business analyst.
- Software engineer.
- Software quality assurance specialist.
- Software project manager.

Admission Requirements

- 300 male and 300 female students were accepted yearly
- The requirement for the admission of students to the College of Computer and Information Sciences is based on a composite average not less than 75% which is calculated as follows:
 - 25% of General Aptitude Test.
 - 25% of Subject Achievement Test.
 - 25% of GPA of PY.
 - 25% of Math Courses in PY (Math 140 and Math 150).
- The total number of accepted students should not exceed the number specified by the university council.

Research Groups

Software and Knowledge Engineering Research Group

The primary mission of the Software and Knowledge Engineering Research Group is to conduct fundamental and applied research in the area of Software Engineering, Knowledge Engineering, Usability Engineering, and Human-Computer Interaction. Our goal is to push forward the scientific frontiers of these fields. For the professional domains, we aim to bridge the gap between theory and practice, whereas for the academic research in software engineering, we foster lines of research for problem-oriented understanding of the theoretical foundations of software engineering. SKERG is also active in developing the university priorities in conducting research in line with the national strategic plan for science and technology in the Kingdom of Saudi Arabia.

<http://skerg.ksu.edu.sa/>

IWAN Research Group

IWAN research group derived its name from the acronyms of the following phrases that represent the group focused research areas:

- Islamic applications
- Web Technologies
- Arabic NLP

<http://iwan.ksu.edu.sa/>

Bioinformatics

Bioinformatics derives knowledge from computer analysis of biological data. These can consist of the information stored in the genetic code, but also experimental results from various sources, patient statistics, and scientific literature. Research in bioinformatics includes method development for storage, retrieval, and analysis of the data.

Bioinformatics is a rapidly developing branch of biology and is highly interdisciplinary, using techniques and concepts from informatics, statistics, mathematics, chemistry, biochemistry, physics, and linguistics. It has many practical applications in different areas of biology and medicine including: sequence analysis, genome annotation, computational evolutionary biology, measuring biodiversity, analysis of gene expression, analysis of gene regulation, analysis of protein expression, analysis of mutations in cancer, prediction of protein structure, comparative genomics, modelling biological systems and high-throughput image analysis.

<http://bioinformaticksurg.blogspot.com/>

Network and Security Research Group (NetSec)

The goal of our research group is to bring researchers and students together to focus on understanding network issues and modern security threats with their countermeasures, and establishing new collaborations in these areas.

They work in partnership with key constituencies such as individual researchers and groups to magnify our influence. They also support consultancy and deliver advanced training in our areas of expertise.

<http://netsec.ksu.edu.sa/>

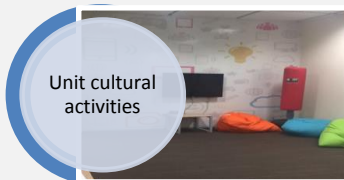
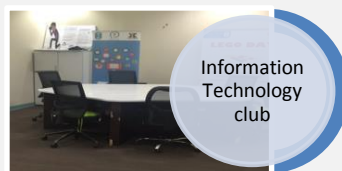
Student Clubs

Information Technology Club

It is a club featuring undergraduate students from different departments falling under the Faculty of Computer Science and Information busy market women, the club aims to represent the college students and their service from two different in two ways, as the club is a great channel through which emptied the student talents and potential leadership and technical through the activities organized by the Members, Add to this that these activities be effectively serve the college students from non-members, as well as university students, service and society in general.

Unit Cultural Activities

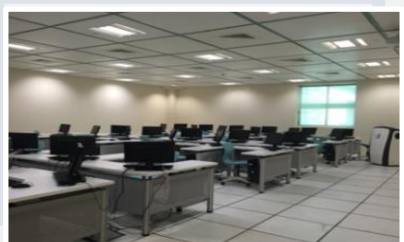
This unit is in coordination with the unit student activities science and medical studies center to arrange for activities not descriptive for the students of the Faculty of Computer Science and Information during the semester and aims to recreation for students and multiple fun activities has unity during this year various events for students.



College Facilities

College of Computer and Information Sciences building contain educational and recreational facilities for students and faculty affiliates added to the facilities that abound in the university. Entertainment facilities in the college include:

- Classes: ranging from ordinary, broadcast, interactive, search rooms and terraces.
- Labs: ranging from scholarships, open and dedicated student's coefficient, graduation projects coefficient (bachelor's) stage, the coefficient of graduate (master's and doctoral).
- reading rooms.
- projects meeting rooms.



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