جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

كلية علوم الحاسب وتقنية المعلومات
College of Computer Science and Information Technology

College Prospectus

College of computer science and information technology

2023-2024

College Prospectus

2023 - 2024

Contents

Welcome to College of Computer Science and Information Technology (CCSIT),

The College of Computer Science and Information Technology (CCSIT) at Imam Abdulrahman bin Faisal University is one of the largest colleges. Upon inception in 2010, CCSIT committed itself to providing students with cutting edge computing and information technology curricula through its departments. CCSIT graduates around 300 students annually. Recently, it has been facing alumni and communal requests to further diversify its degree programs. CCSIT understands the importance of staying current in its fields to meet the demand for highly educated professionals who will empower the socio-economic uplifting of the region.

CCSIT is committed to providing its students with an innovative and state-of-the-art computer science curriculum lined up with ACM & IEEE. CCSIT is offering the following four undergraduate programs and two postgraduate programs.

1. Bachelor of Science in Computer Science (CS)
2. Bachelor of Science in Computer Information Systems (CIS)
3. Bachelor of Science in Cyber Security and Digital Forensics (CYS)
4. Bachelor of Science in Artifactual Intelligence (AI)
5. Master of Science in Computer Science (MSCS)
6. Master of Science in Information Systems and Data Analytics (MISDA)

A message From the Dean

On behalf of the faculty and staff members, I am delighted to welcome you to the College of Computer Science and Information Technology (CCSIT) at Imam Abdulrahman bin Faisal University. We are providing high-quality, world-class quality education since 2010, that produces skilled professionals with the ability to anticipate and adapt to the needs of the strategic workforce in Saudi Arabia.

Through the strategic plan, the aim is to be a leading college that has capable graduates who contributes to the development and transfer of technology. Moreover, they will serve as major source of research and innovation to support and develop the knowledge-based economy in the private and government sectors. This could be realized by providing an inspirational learning environment to gain leadership skills, high standards and values, creativity, teamwork, lifelong learning and a strong sense of their future career. The college also gives priority to provide professional services with community engagements.

To achieve these goals, the College has elite faculty members and staff to lead and compete with others national, reginal and international programs. CCSIT consists of four academic departments, namely the Computer Science Department, Computer Information Systems Department, Computer Networks & Communications Department, and Computer Engineering Department. The College currently offers Bachelor of Science degrees in four different majors: Computer Science (CS), Computer Information Systems (CIS), Cyber Security and Digital Forensics (CYS), and Artificial Intelligence (AI), as well as Master of Science degrees in Computer Science and Master of Science in Information Systems and Data Analytics

In order to keep up-to-date of developments and requirements of the local and international industry, the College seeks to review its various academic programs continuously based on feedback from all stakeholders, such as employers, alumni and current students, through the application of quality standards via local (NCAAA) and international (ABET) academic accreditation to improve the quality of their educational outputs.

Sincerely, and with best wishes,

Dr. Abdullah Mohammed Almuhaideb

Dean, College of Computer Science and Information Technology

Vision:

"To be a leading computing college at national, regional, and global levels."

Mission:

"Provide quality computing education, discovery, and professional services with community engagements."

College Goals:

Goal 1: Offer quality education in the computing domain.

Goal 2: Stimulate creative intra and inter college collaborative research.

Goal 3: Facilitate the culture of community services and advocate social integration.

Goal 4: Recruit and retain high caliber faculty and talented staff.

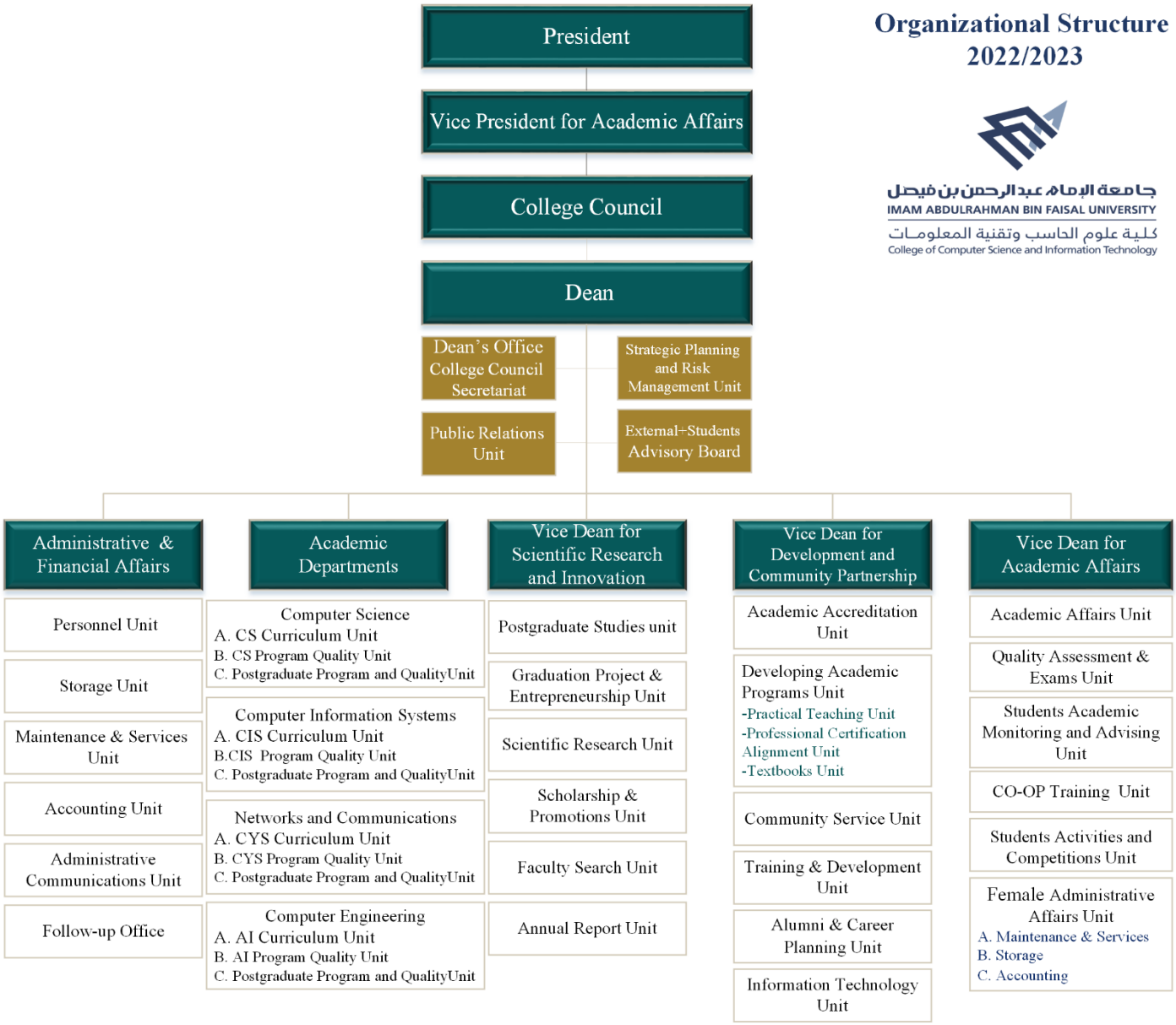
Goal 5: Improve college infrastructure for sustainable environments.

Goal 6: Develop and implement a robust management system.

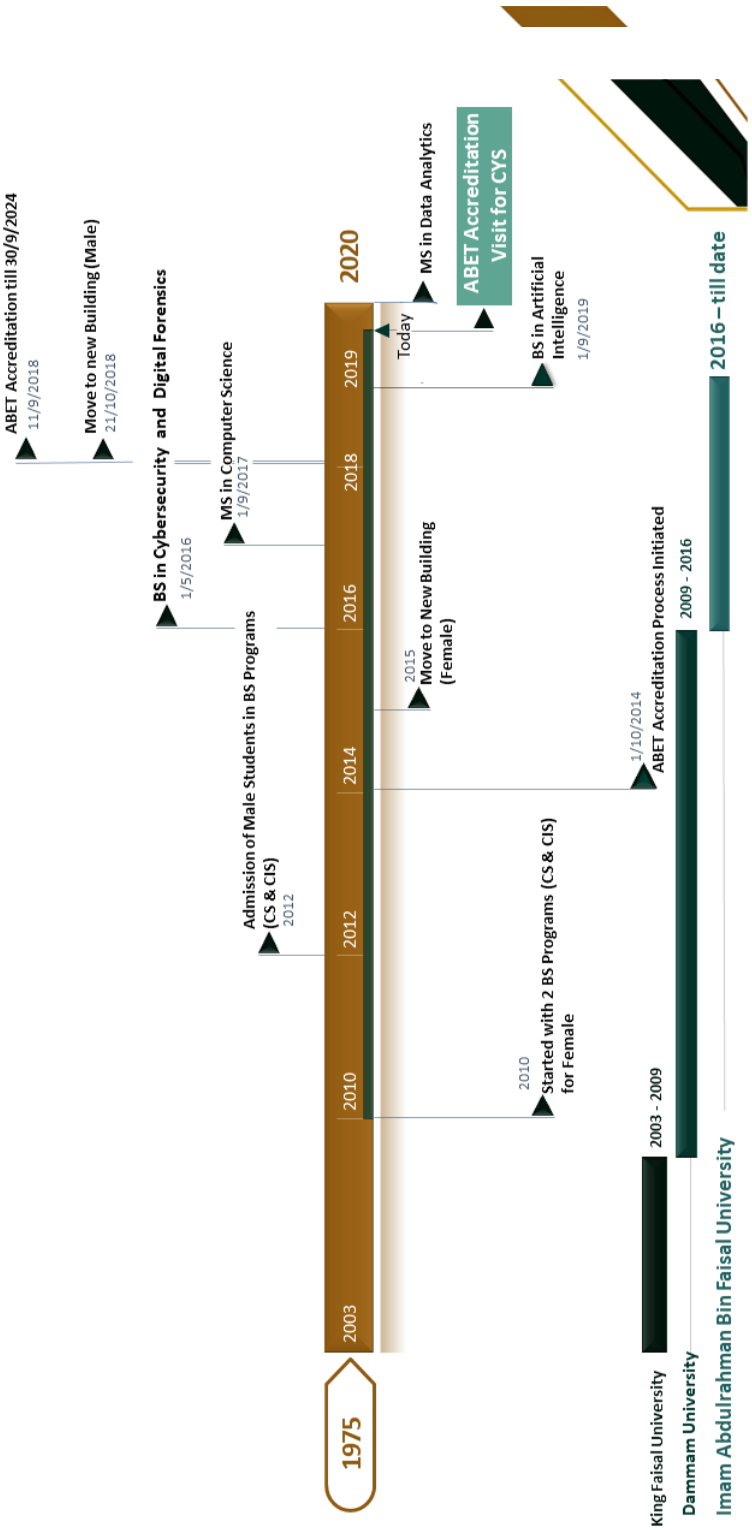
Goal 7: Strengthen financial self-sustenance and entrepreneurship culture at the college.

Goal 8: Upgrade infrastructure and computing laboratories.

College of CCSIT Organizational Structure



The CCSIT Journey



ABET Accredited Programs

- Bachelor of Science in Computer Science (CS)
- Bachelor of Computer Information Systems (CIS)
- Bachelor of Cyber Security and Digital Forensics (CYS)

ABET Computing Accreditation Commission

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College of Computer Science and Information Technology

Quality education has always high importance, as it becomes the base of development for the community. Different parameters are linked with quality education like Curriculum selection by knowing the needs of the industry, physical infrastructure and other facilities of the campus. The mission of CCSIT reflects its aim for quality in its educational programs to meet the challenges in current Information Technology age.

It is an honor for the College to achieve ABET Accreditation in BS programs for Computer Science, Computer Information Systems and Cyber Security and Digital Forensics. The College strongly emphasizes on building its educational process in consideration with standards set by ABET.

ABET (Accreditation Board for engineering and Technology) is the recognized accreditor for college and university programs in applied science, computing, engineering, and technology. Among the most respected accreditation organizations in the U.S., ABET has provided leadership and quality assurance in higher education for over 75 years.

CCSIT in Numbers

Students Graduated from the college annually **300+**

Annual Students **350+**

Postgraduate Programs **2**

Undergraduate Programs **4**

Departments **4**

Faculty Members **104**

Female Faculty **63**

Male Faculty **41**

Students' Achievements

Graduates Support Imitative for the Saudi Data Group

1st Place

FekrahTech Ambassadors Competition in Riyadh

1st Place

In the "Capture the Flag" competition organized by the Saudi Federation for Cybersecurity,

1st Place

Kaspersky Cybersecurity Cup in Bahrain

2nd Place

Huawei Communications and Information Technology competition in

1st , 2nd & 3rd Place

Gulf College CTF Competition

1st Place

Scientific Poster Competition in E-Learning Hackathon Event in Riyadh

1st & 2nd Place

The International Conference on Computer and Information Sciences at Jouf

Best Paper

Cyber Saber Hackathon at VirtuPort Conference in Riyadh

Best University

Hackathon of Artificial Intelligence applications

2nd Place

For a graduation project entitled VECSAT

Patent

Saudi Aramco Cyber Security Challenges in Dhahran

1st Place

Vision Programmer Competition

1st Place

Health Innovation Hackathon

1st Place

The Community Service Hackathon

1st Place

CyberTalent CTF Hackathon, at Saudi International Exhibition & Conference for IoT

3rd Place

CCSIT Undergraduate Programs

A. Computer Science Program

The Bachelor of Science in Computer Science (BSCS) program has been a leading provider of up-to-date computer science education since its inception in 2010. This five-year degree program includes a preparatory year, offers students a choice of three academic tracks: health, engineering, or science. Those interested in pursuing a degree in CCSIT must opt for the science track during the preparatory year. The courses taken during preparatory year contribute to the student's Cumulative Grade Point Average (CGPA) upon completion of the program. Once students complete their preparatory year, they begin their studies at CCSIT, where the first two years of study are common courses for all programs offered in the college, while the last two years are dedicated to specialized computer science programs.

The program vision, mission, educational objectives and student outcomes are:

Vision:

To be a distinguished computer science program for quality education, research, and community services at national, regional and international levels.

Mission:

To offer a quality education in the various domains of computer science and prepare students for both their professional careers and lifelong learning by enhancing their problem-solving skills and instilling in them a sense of responsibility towards serving their community, society, and the nation in a professional manner.

Program Educational Objectives:

The educational objectives for the Computer Science undergraduate program are as follows:

- Apply computing knowledge and skills to design and implement solutions in computer science domain.
- Contribute effectively as an individual, team member and leader.
- Demonstrate ethical and social values in their professional practices.
- Engage in lifelong learning, higher education, career growth, and community service.

Student Outcomes:

For the Computer Science degree programs, the student outcomes are the following learned capabilities:

- Explain the fundamental concepts and theories of Computer science and related fields.
- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the Program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

B. Computer Information Systems Program

The program of Computer Information Systems (CIS) is committed to providing its majors with a solid foundation in research and analyses; an expertise in designing systems, as well as creating and protecting databases and networks. The Bachelor of Science in Computer Information Systems is a rigorous program that prepares its graduates for not only a professional career in the business world, but its graduates are also well equipped to tackle the academic challenges of graduate study. The Master of Science in Information Systems and Analytics (MSISA) offers a hands-on experience in information systems and data analytics.

This program aims at preparing competent graduate who will be able to review the required system for implementation and how to be integrate technology into the system fully and efficiently.
This discipline includes analysis and design of the systems and development of Data Base and Networks and secure them based on scientific decisions.
This discipline is the link between the Computer Science and practical field for companies. It recognizes and reviews the work problems that exist and therefor present technical solutions for such problem.
Information System Program at the college of Computer Science is not part of the College of Administrative Sciences but it is one of the major disciplines of the college of computer science. The connection between information systems and computer science is that the information systems discipline is one of the departments

of the computer science however it has a little connection with Business Management. It is complementary part to the computer science to introduces technology

The Computer Information Systems program vision, mission, educational objectives and student outcomes are:

Vision:

To be recognized nationally and internationally as a leading academic program in the computer information systems domain

Mission:

Provide quality education in Computer Information Systems that prepares students for the technical and management challenges of professional life to better serve local as well as national communities

Program Educational Objectives:

The educational objectives for the Computer Information Systems undergraduate program are as follows:

- Strong practitioners of computer information systems knowledge in diverse user environments.
- Valued contributors, applying the highest standards of professional and ethical conduct while working individually or within a team.
- Ambitious lifelong learners motivated to engage in professional growth and higher-level studies.
- Entrepreneurs and enthusiastic leaders of technology-based businesses.

Student Outcomes:

For the Computer Information Systems degree programs, the student outcomes are the following learned capabilities:

- Define fundamental concepts and theories from information systems and related fields.
- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the Program's discipline.
- Communicate effectively in a variety of professional contexts.

- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the Program's discipline.
- Support the delivery, use, and management of information systems within an information systems environment.

C. Cyber Security and Digital Forensics Program

The program of Cyber Security and Digital Forensics (CYS) is committed to providing its majors with a solid foundation in reliable and secure exchange of digital information which is vital to most human activity, from banking, medicine, infrastructure management to strategic assets. As the use of information and communication technology expands, so does the likelihood of cyber threats. The Bachelor of Science in Cyber Security and Digital Forensics program is aimed at preparing its graduates to tackle real threats that have the potential of derailing our daily life and compromising national and global security. The program is also aimed at providing more job opportunities to the graduates, and to be leaders in the emerging discipline of cyber security & digital forensics. The Cyber Security and Digital Forensics program mission, educational objectives and student outcomes are:

Vision:

To be a leading cybersecurity and digital forensics program at national, regional and global levels.

Mission:

Providing students with quality cybersecurity and digital forensics education to inspire discovery, lifelong learning and professional services with community engagements.

Program Educational Objectives:

The educational objectives for the Cyber Security and Digital Forensics undergraduate program are as follows:

- Have a successful career in practicing the knowledge and skills of cybersecurity and digital forensics for solving problems and designing appropriate solutions following the best practices.
- Contribute effectively in the profession of cybersecurity and digital forensics as an individual, team member and leader.
- Engage actively in lifelong learning, career growth, and community services.

- Demonstrate ethical and social values in their professional practices.

Student Outcomes:

For the CYS degree programs, the student outcomes are the following learned capabilities:

- Describe the fundamental concepts of computing, computer information systems, cybersecurity, and related fields.
- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply security principles and practices to maintain operations in the presence of risks and threats.

D. Artificial Intelligence Program

The program of Artificial Intelligence (AI) has been providing its students with the most recent Artificial Intelligence technologies in its curriculum since the program establishment in 2019. The program qualifies its students for a Bachelor of Science degree in Artificial Intelligence, to meet the demand in the job market for accomplished Artificial Intelligence professionals. The AI program mission, educational objectives and student outcomes are:

Vision:

A distinguished artificial intelligence program achieving quality education, research, and community services nationally and internationally.

Mission:

Providing quality artificial intelligence education, research, and professional services for the socio-economic uplift of the community by preparing students for professional careers and lifelong learning.

Program Educational Objectives:

Graduates of the Bachelor of Science program in Artificial Intelligence (BS-AI) will:

- Demonstrate expertise in Artificial Intelligence tools and techniques to meet the industry needs pertaining to devising cutting-edge solutions.
- Cultivate the culture of innovation and research in Artificial Intelligence, data science, and related disciplines.
- Contribute to humanity using Artificial Intelligence knowledge while working individually or within a team.
- Demonstrate ethical conduct and ability for lifelong learning.

Student Outcomes:

For the Artificial Intelligence degree programs, the student outcomes are the following learned capabilities:

- Understand and explain the fundamental concepts and theories of computer science and related fields.
- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the Program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.
- Apply Artificial Intelligence principles and techniques for problem solving and decision making.

CCSIT Undergraduate Programs & Policies

Programs Overview

Students are exposed gradually to different sets of courses. Typically, by the time of graduation, they should have completed two terms at preparatory year program provided by the Deanship of Preparatory Year and Supporting Studies and eight terms at CCSIT programs. Programs offered and all governing polices will be mentioned in later sections of this handbook.

Preparatory Year

Students must successfully complete 29 credits hours in the Preparatory year (two terms) before admission into the first year at the College of Computer Science and Information Technology.

Common Years

The term "Common years" refers to the first two years at the College of Computer Science and Information Technology since students are required to take the same courses (for a total of 65 credit hours) during these two years.

Specialization Years

The specialization years encompass the last two years of college. By this time, the student will have entered one of colleges' programs, based on their choice of degree.

Curriculum Outline & Yearly Plan

For more information about program plans, please visit the college's website on the following link:

https://www.iau.edu.sa/en/colleges/college-of-computer-science-and-information-technology/programs

CCSIT Postgraduate Program

A. Master of Science in Computer Science (MSCS)

MSCS Mission:

Create a strong foundation for a cutting-edge computer science industry and serve the community and the nation by qualifying skilled leaders and specialists in the field of computer science and by conducting productive applied research.

MSCS Program Goals:

- Apply advanced computing knowledge and critical thinking skills in solving real-world problem.
- Demonstrate ethical and social values in their professional practices.
- Engage in lifelong learning, higher education, career growth and community services.
- To prepare qualified specialists in research, invention, and creativity to create IT products with strategic and national significance.

Details of the Program:

- **2 years, 30 Credit hours**
  - 15 credit hours in mandatory courses
  - 9 credit hours as elective courses from the following program tracks:
    - Big Data and Cloud Computing
    - Information Security
    - Software Engineering
  - 6 credits hours either from the research track or the project track of the program

Program Delivery:

1. **Research track (30 credit hours):** Core Courses (15) + 3-Elective Courses (9))+ Thesis (6)
2. **Project track (30 credit hours):** Core Courses (15) + 4-Elective Courses (12))+ Project (3)

Core Courses (15 credit hours):

- Advanced Topics in Operating Systems
- Research Methods in Computer Science
- Advanced Algorithms Analysis and Design
- Theory of Computation

- Parallel and Distributed Processing

B. Master of Science in Information Systems and Data Analytics (MISDA)

MISDA Mission:

Provide cutting edge Computer Information Systems and Data Analytics curricula and conducive research environment to equip graduates with the required knowledge and skills to excel in professional and research careers as well as community engagement.

MISDA Program Objectives:

Graduates of the MISDA will be:

- Computing practitioners applying highest professional and ethical standards in delivering state of the art solutions in emergent Computer Information Systems domains.
- Critical thinkers and problem solvers committed to design and deploy novel information system solutions in emergent research areas for social and economic development in knowledge-based economy.
- Motivated life-long learners conducting research of highest standards to contribute in Computer Information Systems body of knowledge.
- Entrepreneurs contributing to the social and economic uplift of the society in line with national vision 2030.

Details of the Program:

- **2 years, 33 Credit hours**
  - 6 Credit Hours for Compulsory Courses
  - 12 Credit Hours for Specialized Courses
  - Elective Courses
    - 9 Credit hours for Elective Hours for Thesis route.
    - 15 Credit hours for Elective Hours for Course-Work route.
  - 6 Credits Hours for Thesis for Thesis route.

Program Delivery:

1. **Thesis Rout (33 credit hours):** 2 Compulsory Courses + 4 Specialized Courses + 3 Elective Courses + Thesis
2. **Project track (30 credit hours):** 2 Compulsory Courses + 4 Specialized Courses + 5 Elective Courses

Compulsory Courses (6 Credit Hours):

- Research Methodology
- Managing the Digital Transformation

Specialized Courses (12 Credit Hours)

- Data Wrangling
- Data Analysis and Visualization
- Machine Learning for Data Analytics
- Business Intelligence and Data Analytics

Elective Courses

- Multimedia Information Systems
- Introduction to Internet of Things
- Big Data Processing
- Advanced Data Mining
- Text Mining and Analytics
- Cloud Computing
- Advanced Database Security
- Deep Learning
- Information Security

Research Areas at CCSIT

AI and Data (AI&DS)

Real-Time and
Embedded Systems

Postgraduate

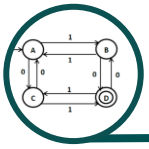
Social Computing

Human Computer
Interaction

Software Engineering

Mobile
Application Developme

User Centric
Information Systems



Theoretical
Computer Science

Mathematical Foundation
of Computer Science

Facilities

The College of Computer Science and Information Technology (CCSIT) occupies three buildings on the main campus which are labelled as building 650, building 750 and building A11.

A. Offices, Classrooms and Laboratories

1. Offices: Administrative, Faculty, and Teaching Assistants

CCSIT occupies Building A11, Building 650 and Building 750 at the University campus in an enclosed suite. In all buildings, faculty members are occupying staff offices. Each building have workrooms, reception desks, a secretary room, conference rooms, and a storage room. Building A11 is exclusively for male faculty and students, whereas the female buildings (Building 650 and Building 750) are specifically for the female faculty and female students. Chairmen's offices are located in the first floor of Building A11. Offices for the faculty are located on the ground and first floors.

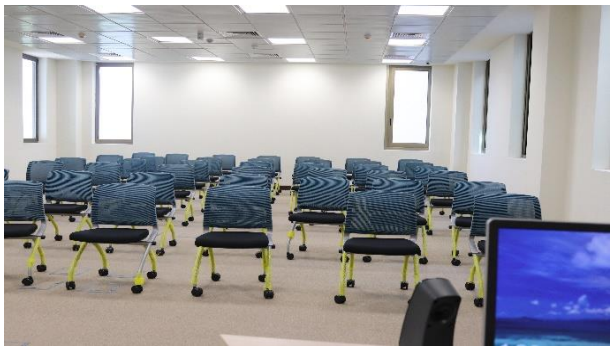
Teaching faculty and administrative staff have a separate office with size of around 4 x 4 meters. The office size permits enough capacity for individuals and group work includes the possibility to conduct small meetings with three to four colleagues or students. Certainly, the offices are provided with air-condition and a good provision of natural day light as well. Every faculty member has a desktop computer in their office and a laptop is issued to all the PhD holders with basic software. In addition, specialized software tools are installed based upon a request to the DICT. Faculty members are provided with shredder, printer, scanner and photocopier. To stay connected with global world of information, high speed Internet facility is provided to faculty members through wired and wireless network. All the offices are secured with lock entry, so faculty members have access outside of their office hours.

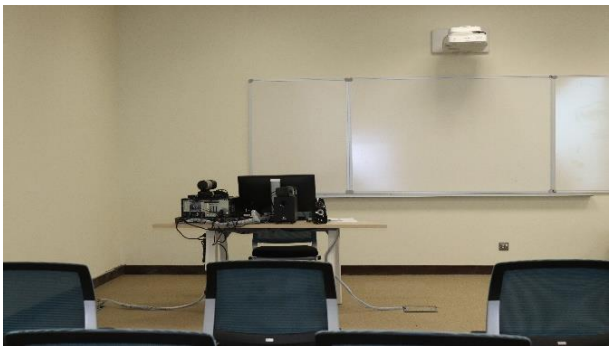
Figure 1: CCSIT offices

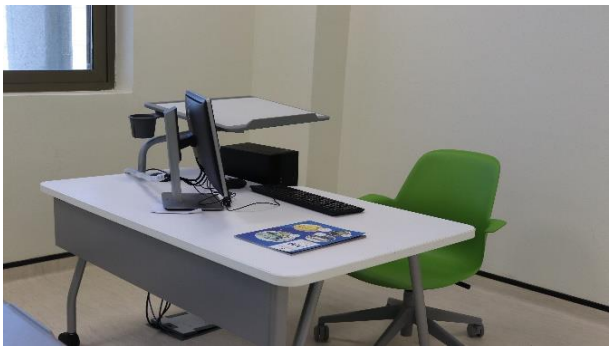
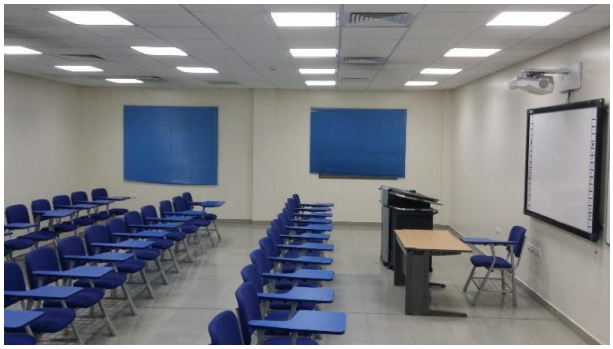
2. Classrooms

The CCSIT provides an excellent teaching environment through well-equipped air-conditioned classrooms. All the classrooms of the college are smart classroom with audio system and Internet, high quality projectors, smart board, white board and instructor's desk. Moreover, the students are provided with sufficient number of chairs and desks in a spacious classroom. Every classroom has the wireless network facility to both instructor and the students to access Internet using their laptop. The College has enough classrooms with the seating facility between 25 to 40 students. The classrooms are planned with optimal schedule in these three buildings by the scheduling unit of the College. In addition to the classrooms, there are three big event halls with a capacity of 80 to 100 students for conference, seminar, workshop and orientation program. In some of the classrooms, video conferencing facility is provided for conducting webinar. Figure 2 shows different views of CCSIT classrooms.

Figure 2: CCSIT classrooms



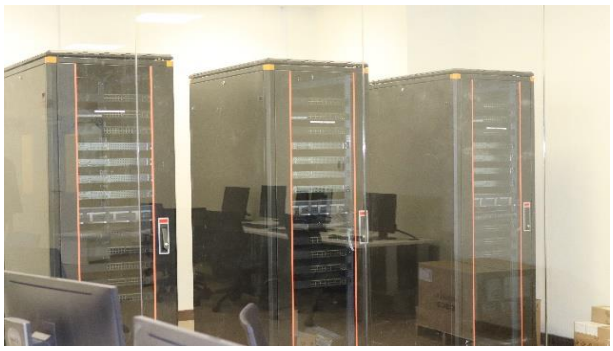
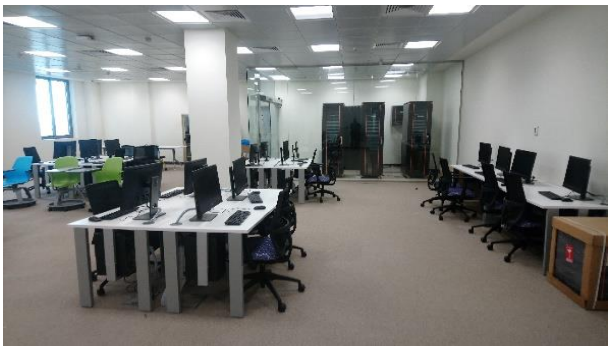


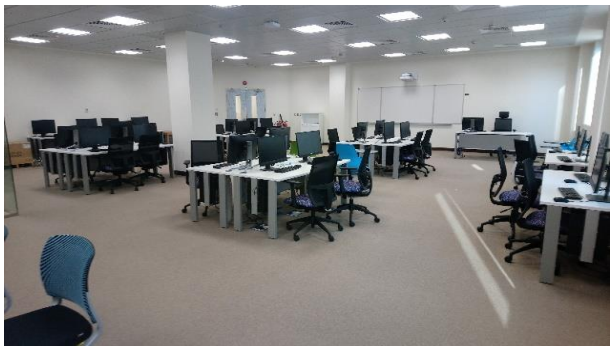
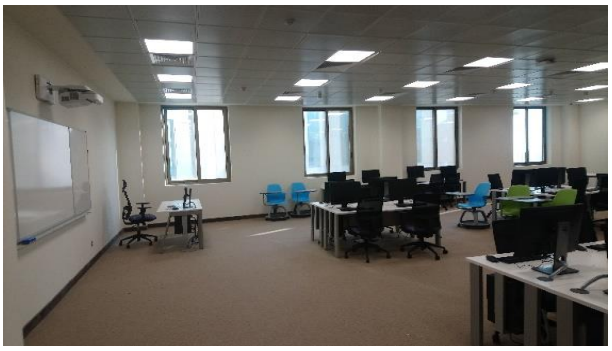
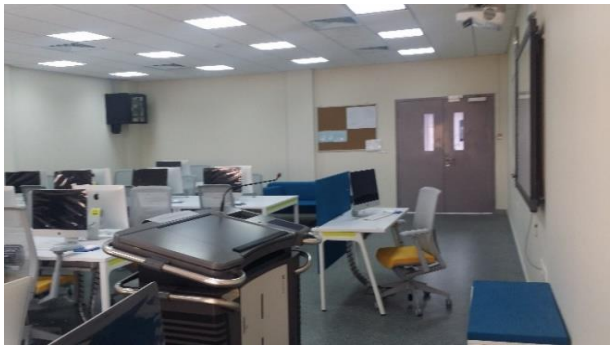
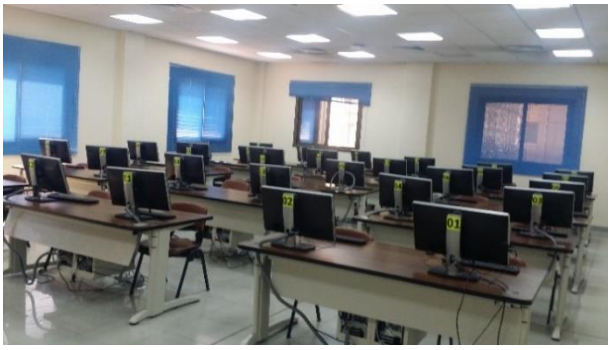





3. Laboratories

All the laboratories in CCSIT are in Buildings A11 (male), Building 650 and Building 750 (female). Each lab is used to teach at least one course. The College has an electronics lab, programming labs, network lab, and Macintosh lab for males in Building A11. A separate set of labs is provided in Building 650 and Building 750 for the female students. All the labs are secured finger print entry and available to students at all times. Figure 3 presents different views of CCSIT laboratories.

Figure 3: CCSIT laboratories

Students and faculty members can use cloud services provided by the University and below are some example programs available:

- Axure RP Pro 7.0
- Balsamiq Mockups for Desktop
- Circuit Maker last
- IBM SPSS Statistics
- MATLAB R2012a
- Microsoft SQL server 2012
- Microsoft Visual studio 2013
- Microsoft office 2013
- Microsoft project 2013

- Microsoft Visio 2013
- MySQL 5.6
- NetBeans IDE 8.2 with
- Notepad ++
- XAMPP
- Wireshark
- Packet Tracer 6.2
- Weka
- Forensics tools
- Network security sniffers and captures

The lab components for CYS curriculum are supported through a number of labs. The snapshots of some of labs is shown in Table 10.

No.	Lab	Mapped courses
1	General Labs	CS 221 Fundamentals of Programming CS 311 Object Oriented Programming 1 CS 321 Object Oriented Programming 2 CIS 321 Database Concepts and Design CYS 508 Project Implementation CYS 506 Security Threats & Vulnerabilities
2	Network Labs	CIS 315 Communication & Network Fund CIS 326 IT Infrastructure Management CYS 406 Network Security CYS 502 Mobile & Wireless Security
3	MAC Lab	CS 322 Operating Systems CYS 408 Architecture of Secure Operating System
4	Cyber Security Lab	CYS 403 Network Forensics, Intrusion Detection, and Response CYS 407 Digital Evidence Analysis CYS 410 Digital Forensic Techniques and Tools
5	Digital Hardware Lab	CS 314 Digital Hardware
6	Electronics Lab	CS 222 Electronics

Table 1: CYS Courses mapped to CCSIT Labs.

B. Computing Resources

The computing resources of the College of Computer Science and Information Technology can be viewed as College Computing Resource and Central Computing resource. The available resources are discussed in detail.

1. College Computing Resources

General labs in Building A11 and Building 650 (for females) are open access (24/7) to the students outside of the regular lab sessions. To ensure proper access, fingerprint entry is enabled for the students of the College. All the required software described as per the curriculum is installed by the Information Technology Unit (ITU) of the College, responsible for providing local support to the College. However, if any student or a group requires special software for a project the installation is done based on the student's or group's request. All the laboratories are provided with high-speed wired internet and wireless routers for laptops. In addition, the central monitoring control of the networks, registration, email, internal web access, e-library and Blackboard access is done by DICT.

2. Central Computing Resources:

The Central Computing Resources are maintained and controlled by DICT. The services provided by DICT include operation and maintenance of the network, main servers and storage. It also formulates technical specifications for computer systems, networks, software and applications as well as for personal computers and accessories. Security protects against any threats to University's computer systems, networks and devices. The services to the faculty and staff include reset password, e-mail, information update system, help desk, e-learning, IP telephone directory, IAU WebEx, E-resources portal, library, and wireless. It offers limited services to students such as reset password, email, information update system, help desk, e-learning, e-resources portal, library, admission portal, and distance learning portal. DICT offers wireless access throughout the campus with the router name IAU_Employee, IAU_Student and IAU_Guest for faculty, students and guests, respectively. To access University resources remotely, DICT offers services through VPN. DICT guarantees the latest update of software installed through online request placed by the faculty to the helpdesk at helpdesk@iau.edu.sa.

3. Faculty Personal Computer

All Computer Science faculty have a core i7 PC in his or her office that has full Internet access through CISCO phone. In addition, all faculty members with the PhD are given a laptop to use for lectures and as a teaching aid with wired and wireless networks.

4. Electronic – Gate System

Many faculty and student issues are handled through e-services in https://eservices.iau.edu.sa/. It facilitates administration, academic and research, IT, and community services. DICT provides a unique login and password to access University e-services. The e-services include Blackboard, digital library, management of research projects, scientific council process, seminar and conference and student evaluation process. shows some e-services provided by the University.

5. Guidance

The Department employs full-time faculty to guide and support the students in using new tools in the labs. The faculty member is responsible for preparing the handouts and distributing them to students prior to the lab session. Moreover, the faculty member demonstrates the use of the tools. Either the faculty member or the lecturer or the teaching assistant will attend the lab and help the students to perform the experiment. They also supervise and maintain the resources locally. However, the College depends on DICT for maintenance. For IT troubleshooting, ITU resolves issues after receiving request on CCSIT.IT@iau.edu.sa.

C. Maintenance and Upgrading of Facilities

The college has established Information Technology Unit reported to Vice Dean for Development and Community Partnership and is responsible of managing and maintaining all the labs in the related buildings. Among its duties are:

- Maintaining the college computers.
- Maintaining college computer network including telecommunications facilities.
- Obtaining and installing all IT equipment and systems.
- Providing technical support to all staff of the college.
- Review and plan laboratory equipment and software requirements to support academic programs delivery.
- Collect and report the faculty requirements for the labs.
- Set timelines for laboratory and software requirements upgrades and new website deployments implementation.
- Promote awareness among the faculty about policies, procedures, and guidelines concerning the website and the laboratories.

The department employs full-time faculty members to guide and support the students in using new tools in the department labs. The faculty member is responsible in preparing the handouts and to deliver to the students prior to the lab session. Moreover, the faculty member demonstrates the experiment practically. Either the faculty

member or the lecturer or the teaching assistant will attend the lab and help the students in performing the experiment. They also supervise and maintain the resources locally. However, the college is dependent on DICT for complete maintenance. For the college level trouble shooting of IT related issues, IT Unit will resolve the issues on placing a request to CCSIT.IT@iau.edu.sa.

The process of maintenance and upgrading is carried out based upon the request of the faculty member to administrator of departmental lab. Usually, for the process of upgrading, the administrator of departmental lab sends email as a reminder to all CCSIT faculty member in the end of each term asking for any required upgrade (either hardware or software) for the next term. Then he handles the request and arranges with the DICT if needed.

For the maintenance, the faculty member will place a request through saned.iau.edu.sa. This request generates a priority number automatically and the technical team from the helpdesk resolves the issues in a short time.

D. Library Services

The books statistics for CCSIT, the process of ordering and accessing the e-library for the students and faculty is mentioned in this section.

1. Process of ordering books/subscriptions by faculty:

The Deanship of Library Affairs selects and acquires books as follows. First, the Deanship of Library Affairs acquires all the recommended texts, reference books and journals for all the programs offered at Imam Abdulrahman bin Faisal University and its off-campus location and make them available to central and branch libraries. The Deanship also purchases the newest edition of the curriculum-recommended text and reference books. Each year the Deanship sends the subject lists to all the Colleges for selection of books for updating. The faculty member selects the desired titles from the list and sends it back to the Deanship. After removing duplicates, the books and subscriptions are ordered of the purchase of journals is based on the recommendation of subject experts on the faculty. Initially, the Deanship of library affairs sends letter to all the deans of the Colleges to recommend peer-reviewed academic journals for the coming year. The Deanship of Library Affairs receives the recommendations and forwards them to the senior librarian. After the lists of journals from all the Deanships, the final lists are forwarded to the dean of library affairs for approval. Upon the dean's approval, the serials librarian sends the final list to local suppliers for a cost estimate. Upon receipt of the dean's approval, the purchase order is prepared and sent to the journal supplier along with the terms and conditions and the cheque for the total amount.

2. Library system for locating and obtaining electronic information:

Electronic and print materials can be searched and accessed as follows:

1. **Online Public Access Catalog** (OPAC): OPAC provides information about the print collection at http://catalog.iau.edu.sa.

2. **Electronic Resource Portal**: Information about all the electronic resources is listed on IAU e-resource portal. One can log in to browse and search IAU resources through this platform in https://library.iau.edu.sa

3. **Summon Web Scale Discovery**: Summon is a discovery tool to browse and search all IAU electronic and print resources through a single platform. http://iau.summon.serialssolutions.com

3. Books statistics:

Some statistics about the library are presented in Table 11.

Resources in the Library	Quantity
Number of CS electronic books	67,307
Number of CIS electronic books	41,044
Number of CYS electronic books	14,172
Number of CS Print books	21393 titles 68894 copies
Number of CIS Print books	19609 titles 65642 copies
Number of CYS Print books	21683 titles 71752 copies
Number of shared Print books	Shared between CS, CYS, CIS: 18790 Shared between CS, CIS: 3232
Number of CYS and IT electronic journals	CS: 972 CYS: 25 CIS: 19
Number of Artificial Intelligence e-books	19,807
Number of Artificial Intelligence Print books	320
Number of Artificial Intelligence e-Journals	138
Number of chairs in the library	803
Number of computers in the library	105

Table 2: IAU Library Statistics for CYS/CS/CIS/AI Titles.

Budget: Books and journals are purchased at the faculty's request. During the academic year (2021-2022), a total of 202 new books were purchased and added to the library collection for CYS/CS/ CIS/ AI at the cost of SAR. 63539.62

Opening Hours:

- Sunday to Thursday: 08:00 a.m. – 08:00 p.m.
  - During exams: 08:00 a.m. – 12:00 a.m.
- Saturdays: 10:00 a.m. – 03:00 p.m.
  - During exams: 08:00 a.m. – 10:00 p.m.

Meeting Rooms: There are two private rooms each equipped with projector, Wi-Fi network, LAN, and white board with seating capacity of 16.

Group Study Rooms: There are three study rooms available for group study and discussions in the Central Library (Male).

The College of Computer Science and Information Technology at IAU has qualified staff who manage and maintain laboratory equipment and computing facilities. The College has a robust system for managing facilities, particularly in regard to labs and lab safety. The safety rules are placed at prominent places in the labs. Tools and equipment are checked on a routine basis. Overall, the facilities and management system available in the College are adequate to support successful attainment of the PEOs and SOs of the Computer Science Program.

Student Services & Activities

Each year, the College conducts a number of activities under the supervision of the Student Activities Committee and a number of committees in both male and female students, which have diversified to enrich the experience and interest in the skills of male and female students and faculty members and administrative staff, the. Student activities fall under the following sections:

- Student Activities
- Community Service
- Training and Development
- Participations and Competitions
- Achievements

Student activities aim at providing a solid ground for students to promote their developing needs on both the cultural and social levels. Students who are interested in joining the activities can be paid per hour. They will be able to communicate online with students, deanships and different colleges to receive suggestions that will in turn, remove any obstacles for them, which is our ultimate objective. Different student activities are designed to meet the needs and interests of students. They help students utilize their leisure time in useful activities. Students are permitted to join these activities under the guidance of the faculty staff.

Student activities include, but are not limited to:

- Social and cultural activity
- Sport activity
- Student clubs: reading forum club, student relations club, roamers club, participants club, educational club, scientific research club, sports club, excellence club, drama club, scientific club, cultural club, media club and photography club.
- Student competitions such as College Star Award and University Star Award.
- Open day activity.
- Leisure trips such as spring camping and university beach tour.


THE LINE


HUAWEI ICT COMPETITION 2022-2023
GLOBAL FINAL
I C. The Future


What type old devices do we accept?


External
Cleaning
& Packing


1st
Place
IAU


BUG BOUNTY CUP
Most Critical Report
15,000


جامعة الإمام عبدالرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
كلية علوم الحاسب وتقنية المعلومات
College of Computer Science and Information Technology
إنجازات طلبة الكلية للعام الجامعي 2022/2023
1st place in Gulf college CTF Competition
1st place in Technical content Writing Competition
1st place in Women in Data Science in Dhahran (WiDs 2023)
2nd place in Hackathon of artificial intelligence applications
3rd place in National Gallery Competition "She Codes 2022"
1st, 2nd place in The best projects in entrepreneurship
1st place in Health Innovation Hackathon
1st place in Graduates Support Initiative for the Saudi Data Group
1st place in Innovation Hackathon in Cardiovascular Medicine
3rd place in Huawei Communications and Information Technology Competition
3rd place in Google Solution challenges
3rd place in PMU Cyberthon 2.0 CTF competition
1st place in the Community Service Hackathon
2nd place in theMicromouse Competition
Highest Risk Report Award In the Bug Bounty Cup rewards platform
3rd place in Sustainable Agricultural Programmers Hackathon
3rd place in Jude of the University
3rd, 5th place in Energies Compass Competition
Designed by Khadijah Alamoudi

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