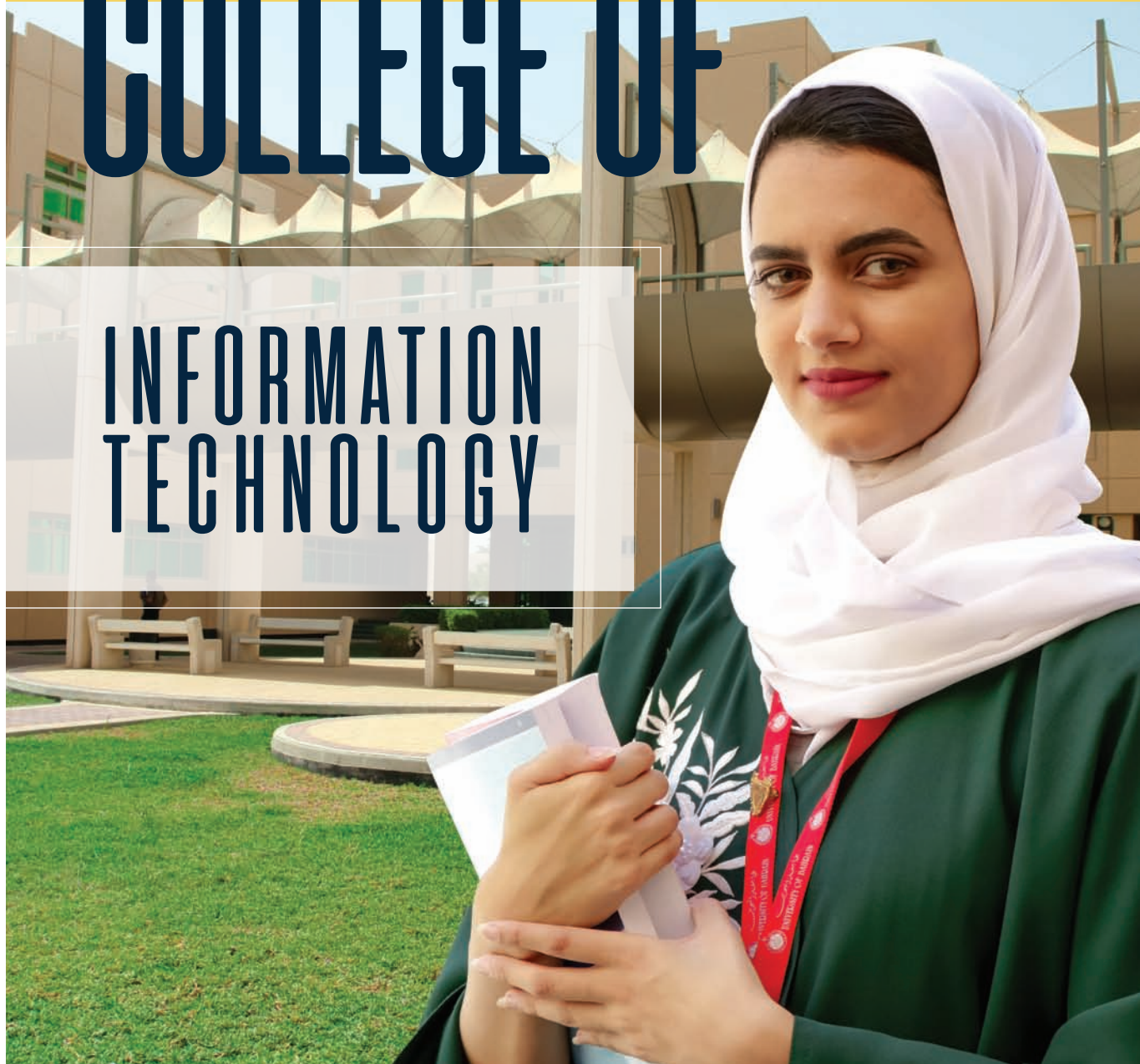


COLLEGE OF

INFORMATION TECHNOLOGY



ABET



UNIVERSITY OF
BAHRAIN
BRIDGE TO THE FUTURE



His Royal Highness

Prince Khalifa bin Salman Al-Khalifa

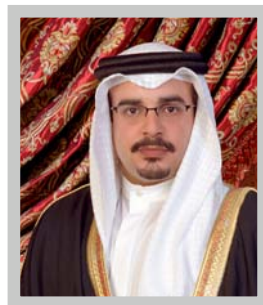
Prime Minister



His Majesty

King Hamad bin Isa Al-Khalifa

King of the Kingdom of Bahrain



His Royal Highness

Prince Salman bin Hamad Al-Khalifa

Crown Prince
Deputy Supreme Commander
First Deputy Premier

CONTENTS..

PRESIDENT'S MESSAGE	03
DEAN'S MESSAGE	04
OVERVIEW OF THE COLLEGE	06
DEPARTMENTS	10
UNDERGRADUATE PROGRAMS	14
GRADUATE PROGRAMS	18
RESEARCH CAPABILITIES	22
CONSULTANCY AND COMMUNITY SERVICES	24
FACULTY LIST	26
CONTACT US	34



PRESIDENT'S MESSAGE

As we enter the fourth industrial revolution, it is clear the new economy is the digital economy, led and driven by technology. Breakthrough technology is changing the way we interact, business models are being redesigned, jobs are becoming automated and the opportunities for improved healthcare, education and public services through technology are endless. A new wave of technology entrepreneurs is creating new value and new jobs: cloud computing means that collaboration globally is accessible and cost effective.

This all means that our College of Information Technology must be at the leading edge of change and innovation and produce graduates that are able to contribute to Bahrain's increasingly diversified and technology-driven economy, in addition to playing a key part in solving national and regional issue such as cyber security and data mining.

The College has a significant part to play in developing not just our students but also the wider community. Increasing and improving the digital literacy of the community and company employees through training will help improve productivity and innovation throughout Bahrain.

It is our expectation that the College of information Technology will continue to play a significant role in the national economic development through being integral to the digital and innovation ecosystem.

Prof. Riyad Yousif Hamzah
President of the University of Bahrain



DEAN'S MESSAGE

Welcome to the College of Information Technology at the University of Bahrain. The College of Information Technology is a remarkable educational environment for talented students to gain current academic experience through a variety of internationally accredited programs, up-to-date courses, experienced faculty, research, and more.

As the first national college in Information Technology in Bahrain, our goals are to stimulate a thirst for knowledge and life-long learning within our students, and to inspire them to succeed in their careers through a spirit of independence, innovation and entrepreneurship skills. Moreover, the College of Information Technology supports the engagement in research that contributes to the success of our community and flourishes the economy.

There are more than 2000 undergraduate students pursuing various degrees in the College of Information Technology. The skillful workforce at the College of Information Technology includes more than 70 faculty members who collaborate and work hard to deliver eight undergraduate and graduate programs. The undergraduate programs include Computer Science, Information Systems, Computer Engineering, Network Engineering, and Software Engineering. The graduate programs include Masters in Information Technology, Cyber Security, and Software Engineering.

As the dean of the College of Information Technology, I look forward to collaborating with our stakeholders to continue building powerful and effective educational programs.

Dr. Lamya Mohamed Aljasmi
Dean of the College of Information Technology



THE COLLEGE

IN THE EARLY

1990s

programs started, and since then have been excelling in providing internationally accredited education, nationally relevant research, and community engagement.

DURING THE
ACADEMIC YEAR

2013-14

a mobile computer lab was established, and several collaborative projects with «Information and e-government Authority» were initiated.

IN THE YEAR

2003

established with long experienced faculty in the field of ICT, and excellent infrastructure, the College strives to be a leader in Information Technology across Bahrain and the region.

IN THE YEAR

2010

The College's B.Sc. Programs in Computer Science, Computer Engineering and Information Systems have been accredited by ABET.

IN THE
ACADEMIC YEAR

2016

B.Sc. in Computer Science Program was placed on the National Qualification Framework (NQF) register.

B.Sc. in Computer Engineering and B.Sc. in Information Systems Programs were placed on the NQF register.

IN

AUGUST 2017

a memorandum of understanding (MoU) with Microsoft for potential Collaborations



INSPIRED BY

2030

all programs offered by the College of Information Technology have been reviewed to update their curriculum in order to stimulate innovation and entrepreneurship, and to satisfy international and local academic standards. Furthermore, as the field of Information Technology has grown and diversified, four new programs have been established to satisfy the changing demands of the labor market and energize the economy.

VISION

**A WORLD-CLASS COLLEGE
THAT IS RECOGNIZED
FOR THE EXCELLENCE IN
LEARNING, RESEARCH AND
ENTREPRENEURSHIP IN
INFORMATION TECHNOLOGY.**



MISSION

To contribute directly to the economic growth and development of Bahrain, supported by leading edge learning and teaching, research with national and regional impact, and local engagement and international reputation.



OBJECTIVES

College Strategy 2017-2021

1

World-Class Learning and Teaching

- The learning and teaching philosophies are responsive to changes in technology, employer needs and changes in the national priority of economic sectors.
- The learning and teaching philosophies are based on principles of international academic standards and an industry-led curriculum where students are encouraged to develop the necessary soft skills required by the labor market and be inspired to become lifelong learners and succeed in their careers.
- The college will foster to maintain faculty members of high-quality. The faculty members are continuously skilled with leading edge academic standards and up-to-date technologies.

2

Research with National and Regional Impact

The college will direct its research efforts towards local and regional ICT related issues through international collaboration with regional stakeholders.

The college will also concentrate on research that has high impact on industry, business, government and wider society through focusing on creating multi-disciplinary research.

3

Innovative and Entrepreneurial Environment

The college will develop innovative and entrepreneurial culture through its dynamic learning system, skilled faculty members, creative students, and policies.

4

Local and International Engagement

The college will support the social and economic development in Bahrain through local and international partnerships with the industry, business and government.

5

Sustainable Infrastructure and Human Resources

The college will promote a sustainable development of infrastructure and human resources that serve effectively towards achieving the excellence in learning, research, and entrepreneurship.



DEPARTMENTS



THE DEAN

leads the College towards the satisfaction of its strategy. The dean communicates and collaborates effectively with various constituencies to ensure the quality and continuity of the academic programs.

THE COLLEGE COUNCIL

supervises all the affairs of the College, including academic programs, research, publications, and recruitment.

DEPARTMENTAL CHAIRPERSONS

manage academic programs, faculty members, and students to maintain productive and positive educational environment.

DEPARTMENT OF COMPUTER ENGINEERING

Established in 2002 under the College of Information Technology, the Department of Computer Engineering has around 13 academic members and 10 administrative staff. Currently, there are more than 350 students enrolled in the undergraduate programs offered by the Department and around 150 new students are admitted each year.

The Department is equipped with 10 laboratories and 10 classrooms to fully utilize its students and staff capabilities. The laboratories are specialized in the areas of analogue electronic circuits, digital circuits and systems, computer applications, microprocessors and a recently well-equipped laboratory to train the students on practical computer networks.

In the Department of Computer Engineering, students have the opportunity to pursue a degree in cutting-edge technologies and to be part of a community of friends and colleagues who will accompany them during their academic career and who will motivate them to learn. The Department of Computer Engineering is renowned for graduating engineers that possess the knowledge, tools, ability, and vision necessary to pursue different career paths-students go on to be entrepreneurs, managers, researchers.

OFFERS THE FOLLOWING PROGRAMS:

- B.Sc. in Computer Engineering
- B.Sc. in Network Engineering

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science is an important pillar in the College of Information Technology at the University of Bahrain. Founded in 1989, the Department is composed of 27 academic members and 21 administrative staff. There are currently around 500 students enrolled in the Department.

These students are part of the Bachelor of Science (B.Sc.) program in Computer Science which has been accredited by the American Board for Engineering and Technology (ABET) in 2010 and was re-accredited in 2016. The aim of this program is to provide internationally recognized education to qualify students for productive IT careers, research, and higher education.

Research groups within the Department include software engineering, eLearning, mobile technology, AI, algorithms, and theory of computation.

The Department is located in the new College of IT building in the Sakhir campus. The computing facilities in the Department include 9 general computer labs and 1 lab dedicated to the senior projects. All labs are equipped with the state-of-the-art hardware, have wired/wireless Internet access, and provide the latest software running on multiple operating systems. Furthermore, the students in the Department have access to the College's general open area labs (more than 300 PCs) for assignment work and general Internet access.

The Department graduates an average of 100 computer science professionals every year. Using their technical and creative skills, these alumni have greatly improved our society in every aspect and contributed to the growing Bahraini economy.

OFFERS THE FOLLOWING PROGRAMS:

- B.Sc. in Computer Science
- B.Sc. in Software Engineering
- M.Sc. in Software Engineering

DEPARTMENT OF INFORMATION SYSTEMS

Information and Communication Technologies (ICT) have become an integral part of products and services of organizations and governments. Every organization, public or private, relies on these technologies for better managing, coordinating, and controlling their tasks. The Information Systems disciplines centers around using ICT to efficiently and effectively enhance the performance of individuals and organizations in their work. Information Systems Professionals will be involved not only in designing and developing systems but also in understanding business processes and requirements to enhance and develop these systems. This makes Information Systems graduates in high demand by employers in Bahrain and the region. Given their knowledge in both business and IT, our graduates pursue professional careers such as: ERP specialists, application developers, information security specialists, systems analysts, database analysts, and business analysts.

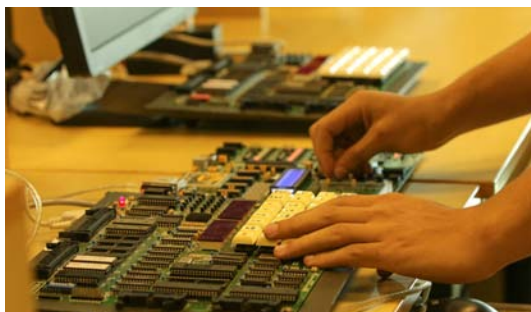
The Department has 37 experienced and well-qualified faculty members holding PhDs in areas such as information systems management, database systems, web-based applications and design, knowledge management, electronic business, enterprise systems, information security and IT strategy and planning. Furthermore, the B.Sc. in Information Systems program was accredited by ABET in 2011 and has been re-accredited in 2016.

In addition, our students are equipped with knowledge to assist them to obtain professional certificates such as COBIT5, Certified Information Systems Auditor (CISA), Certified Information Security Manager (CISM) and SAP to enhance their employability and professional careers. The Department partners with professionals from the industry to enrich the program and bridge the gap between academia and industry making it one of the leading IS programs in Bahrain and the region.

OFFERS THE FOLLOWING PROGRAMS:

- B.Sc. in Information Systems
- M.Sc. in Cyber Security

UNDERGRADUATE INFORMATION



B.SC. IN COMPUTER ENGINEERING

Our Bachelor of Science (B.Sc.) in Computer Engineering focuses on the relationship between computer hardware and software systems and the interaction among them. The curriculum focuses on the theories, principles, and practices of traditional electrical engineering and mathematics and applies them to the problems of designing computers and devices that contain computers.

Computer technology is built into almost every new product today. Computer engineering graduates will enter a rapidly growing, leading-edge field to design smart devices such as cellular phones, GPS navigators, video entertainment systems, medical imaging, monitoring devices and much more.

THE CURRICULUM OF COMPUTER ENGINEERING IS COMPOSED OF 135 CREDIT HOURS

- university requirements (11 credit hours)
- college requirements (24 credit hours)
- major requirements (63 credit hours)
- major elective requirements (12 credit hours)
- major support requirements (21 credit hours)
- general studies elective (3 credit hours)
- CR-training (Internship) (1 credit hour)

B.SC. IN NETWORK ENGINEERING

Our Bachelor of Science (B.Sc.) in Network Engineering focuses on the theory and practice of designing, deploying and managing both wired and wireless networks technologies. The program provides foundational theory and hands-on experience that allow students to gain familiarity with network devices and servers, security, and multimedia network services. The objects is to form graduates with strong technical knowledge but also with a variety of employability skills such as problem solving, communication skills, teamwork and project management

THE CURRICULUM OF NETWORK ENGINEERING IS COMPOSED OF 134 CREDIT HOURS

- university requirements (11 credit hours)
- college requirements (24 credit hours)
- major requirements (63 credit hours)
- major elective requirements (15 credit hours)
- major support requirements (17 credit hours)
- general studies elective (3 credit hours)
- CR-training (Internship) (1 credit hour)



B.SC. IN COMPUTER SCIENCE

The graduates of the B.Sc. program in Computer Science are expected to have the ability to pursue a successful IT career in industry, government, academia or entrepreneurship; engage in life-long learning, graduate-level studies, or professional development; and add valued contributions to society through responsible and ethical practice within the IT profession.

THE CURRICULUM OF COMPUTER SCIENCE IS COMPOSED OF **132** CREDIT HOURS

- university requirements (11 credit hours)
- college requirements (24 credit hours)
- major requirements (60 credit hours)
- major elective requirements (12 credit hours)
- major support requirements (14 credit hours)
- general studies elective (10 credit hours)
- CR-training (Internship) (1 credit hour)

B.SC. IN SOFTWARE ENGINEERING

Software Engineering deals with building and maintaining software systems. It is more software-oriented and has a greater emphasis on large software applications. It is more applied than Computer Science, placing greater emphasis on the entire software development process, from idea to final product. It is also more disciplined than Computer Science, applying more systematic practices to help ensure that product are reliable and safe.

THE CURRICULUM OF SOFTWARE ENGINEERING IS COMPOSED OF **132** CREDIT HOURS

- university requirements (11 credit hours)
- college requirements (24 credit hours)
- major requirements (60credit hours)
- major elective requirements (12 credit hours)
- major support requirements (17 credit hours)
- general studies elective (7 credit hours)
- CR-training (Internship) (1 credit hour)

UNDERGRADUATE INFORMATION



B.SC. IN INFORMATION SYSTEMS

The graduates of the B.Sc. program in Information Systems are expected to have the ability to apply their knowledge and skills to succeed in an information systems career in public or private sectors or embark on entrepreneurial paths; communicate and work ethically, responsibly, and effectively in multi-disciplinary teams while participating fully in the development of their profession and society; and pursue and successfully complete advanced studies and lifelong learning for personal and professional growth.

THE CURRICULUM OF INFORMATION SYSTEMS IS COMPOSED OF **133** CREDIT HOURS

- university requirements (11 credit hours)
- college requirements (24 credit hours)
- major requirements (67 credit hours)
- major elective requirements (15 credit hours)
- major support requirements (12 credit hours)
- general studies elective (3 credit hours)
- CR-training (Internship) (1 credit hour)

ADMISSION

The applicants who meet the following requirements will be admitted to the University of Bahrain: Students must possess a high school diploma/secondary school certificate:

- Department of Computer Science: (Science Track)
- Department of Computer Engineering: (Science Track) or (Technical Track)
- Department of Information Systems: (Science Track) or (Commercial & Arts Tracks)
- A minimum grade of 70% in the General Secondary School Certificate (Tawjihia) or its equivalent.
- No more than two years shall have passed since the applicant obtained his/her high General Secondary School Certificate.
- The applicant shall attend an aptitude test and a personal interview.
- Language competency is required according to the language of instruction of the specific program of study.
- The applicant shall be medically fit for the academic program he/she wishes to enroll in.

GRADUATION REQUIREMENTS

The graduation requirements of the B.Sc. in the College of Information Technology Programs are basically that students should pass successfully all courses specified within the program plan with overall GPA of at least 2.0 and also pass the major courses (ITXX) with the GPA of at least 2.0.



CAREER OPPORTUNITIES

COMPUTER ENGINEER, NETWORK ENGINEER, NETWORK ARCHITECT, NETWORK ADMINISTRATOR, NETWORK OPERATOR, SYSTEM ENGINEER, SYSTEM ADMINISTRATOR, TECHNICAL SUPPORT ENGINEER, SECURITY ENGINEER, IT SECURITY MANAGER, CLOUD ENGINEER, COMPUTER ENGINEERING INSTRUCTOR, SOFTWARE ENGINEER, APPLICATION PROGRAMMER, SOFTWARE DEVELOPER, SOFTWARE TESTER, DATABASE ADMINISTRATOR, DATABASE DEVELOPER, PROJECT MANAGER, TECHNICAL SUPPORT SPECIALIST, SECURITY PROGRAMMER, COMPUTER SCIENCE INSTRUCTOR, BUSINESS ANALYST, ENTERPRISE-WIDE INFORMATION SPECIALIST, IT AUDITOR, DATABASE DEVELOPER, INFORMATION SECURITY ANALYST, INFORMATION SYSTEMS INSTRUCTOR, SENIOR NETWORK ENGINEER, NETWORK OPERATIONS MANAGER, ASSOCIATE SECURITY ENGINEER, ASSOCIATE SECURITY ADMINISTRATOR, SECURITY ADMINISTRATOR, SYSTEMS ANALYST, SOFTWARE PROJECT MANAGER, APPLICATIONS PROGRAMMER, WEB DEVELOPER.

GRADUATE INFORMATION



MASTER OF SCIENCE IN SOFTWARE ENGINEERING

The graduates of the M.Sc. program in Software Engineering are expected to have the ability to pursue a successful software engineering career in industry, government, academia or entrepreneurship; engage in life-long learning, graduate level studies, or professional development; and add valued contributions to society through responsible and ethical practice within the IT profession.

THE CURRICULUM IS COMPOSED OF **33** CREDIT HOURS

- core courses (15 credit hours)
- elective courses (12 Credit hours)
- thesis (6 Credit hours)

COMPUTING: COMPUTER SCIENCE, COMPUTER ENGINEERING, INFORMATION SYSTEMS, INFORMATION TECHNOLOGY, OR ANY RELATED TITLE WHERE IT STUDY IS A MAJOR.

ADMISSION CRITERIA

- The applicant must have a bachelor degree in Computing from the University of Bahrain or an equivalent degree from a recognized university with a GPA of at least (2.67) on a 4-point scale, or an equivalent grade according to other evaluation systems.
- The degree that a student holds should be achieved through a full-time study in a specialization that qualifies him/her to join the program.
- The students seeking admission to the program has to pass an entrance examination.
- The student must attend and pass a personal interview.
- The student must present two recommendation letters from his/her former professors/employers.
- The student must satisfy the English proficiency requirements of the University for Master Program admission. A score of at least 500 in TOEFL or 5.00 in IETLS (Academic) is required.

GRADUATION REQUIREMENTS

Students enrolled in the program are required to successfully complete 27-credit hours of courses, and an equivalent of 6-credit hours thesis. The detailed program requirements for the M.Sc. Program in Software Engineering are described in the curriculum plan in the following section. The objectives, stated above, are realized through:

- The common foundation core courses, which establish the needed competence level for all students in the program.
- A set of elective courses carefully structured to diversify the students' knowledge and utilize the core courses taken. Students are allowed to choose four electives to further broaden their horizon in graduate level courses.
- A thesis which aims at enhancing the ability of the student to conduct research.



MASTER OF SCIENCE IN CYBER SECURITY

The MSc in Cyber Security program prepares candidates with undergraduate degrees in IT disciplines for leadership roles in technology-based and information-based workplaces. This program offers an advanced level of learning by covering theories, concepts and techniques related to design, development to effectively secure information systems. Graduates of this program are capable of evaluating an organization from end to end by assessing its security needs, then designing security and governance architecture that will satisfy its Cyber Security requirements. Furthermore, graduates are able to address IT security challenges using the most effective tools and countermeasures.

THE CURRICULUM IS COMPOSED OF **33** CREDIT HOURS

- core courses (21 credit hours)
- elective courses (6 Credit hours)
- thesis (6 Credit hours)

ADMISSION CRITERIA

- A Bachelor's degree in a field within the Information Technology or related disciplines (including Computer Science, Information Systems, Computer Engineering, and Information Technology) with a GPA of 2.67 or above out of 4.0.
- English language proficiency: a minimum score of 5.5 in IELTS (or an equivalent TOEFL score).
- Two recommendation letters from two of his/her former professors.
- Attend and pass the entrance exam and personal interview.
- Any other requirements as stipulated by the University.

GRADUATION REQUIREMENTS

Students must complete a minimum of 33 credits as required by the University of Bahrain's regulations.

- Core Requirement (18 credits). Six courses from the list of core courses.
- Electives (9 credits). Two courses from the list of elective courses below.
- Thesis (6 credits). All students must complete a capstone experience that synthesizes and integrates the knowledge and skills obtained throughout the master's program. It is the responsibility of the student to find a faculty member willing to supervise the master's thesis.



**THE FINAL ADMISSION WILL
BE BASED ON THE MERIT
LIST OF THE APPLICANTS**

ADMISSION

- A Bachelor's degree in any discipline from a university or an institution accredited by the University of Bahrain, with a minimum GPA of 2.67 out of 4 (or its equivalent).
- Proficiency in English language. Must have a minimum score of 5.5 in IELTS.
- The final admission will be based on the merit list of the applicants.

GRADUATION REQUIREMENTS

The normal period required for a student to finish a Postgraduate Program is 2 years; while the minimum is one year and a half and the maximum is 4 years. To meet the graduation requirements, students:

- must successfully complete all the program courses (the passing grade in all courses of the Master's program shall be a grade of «B». However, a student may pass with a minimum grade of «C+» in two courses only)
- are required to attain a minimum cumulative GPA of 3.00 out of 4.00.



RESEARCH CAPABILITIES



THE COLLEGE OF INFORMATION TECHNOLOGY HAS AN EXCELLENT INFRASTRUCTURE TO SUPPORT RESEARCH WITHIN THE IT FIELD. THIS INCLUDES:

- **Qualified Experts:** More than 75 talented IT faculty including 45 holders of PhDs from prestigious international universities within the field; with specializations ranging from IT project management, database management, cloud computing, software engineering, algorithms, cyber security; to others such as networking, embedded systems, and distributed sensor networks.
- **Laboratories:** Several dedicated labs in areas such as networking, data science, mobile computing, decision support, and embedded systems.
- **Postgraduate Students:** A number of talented postgraduate students studying for their Master's degree and working on research topics within the IT field, under the supervision of the College faculty members.
- **Experience:** The College has been engaged in several research initiatives in mobile computing, IT market research, smart city technologies, and other projects with organizations such as the Information and eGovernment Authority, and Tamkeen, among others.
- **Dedicated Research Groups:** The College has several specialized research groups:
 - Mobile computing research group
 - Data mining research group
 - Big-data research group
 - Telematics and embedded systems
 - Intelligent systems research group



FACULTY MEMBERS WORK ON RESEARCH BASED ON THEIR FIELD OF SPECIALIZATION. MANY WORK IN INTERDISCIPLINARY RESEARCH, WITH STRENGTH IN THE FOLLOWING RESEARCH AREAS:

- Design and analysis of Algorithms
- Database management
- Machine learning
- Data mining and analytics
- eLearning and educational technology
- Cloud and distributed computing
- IT Governance, Management, and Planning
- Cyber security
- Networking and IOT
- Embedded systems and control
- Autonomous motor vehicles



CONSULTANCY AND COMMUNITY SERVICES

In its strategy toward community engagement, the College recently conducted the following projects and activities:

- The Cyber Security Forum, held in September 2016, with a number of experts speaking about IT and cyber security and its effects on the Kingdom of Bahrain. The forum was attended by 120 IT security professionals from around the Kingdom.
- The IT Entrepreneurship Forum, held in October 2016, with several speakers discussing the way forward in IT entrepreneurship. The forum was attended by 1500 students from inside and outside the University of Bahrain.
- The UOB Smart City Hackathon, held in April 2017, with participants from 8 government and private-sector organizations and four colleges from UOB to discuss smart and sustainable city solutions and initiatives.
- The Departments organize periodical public workshops and seminars throughout the year including seminars on topics such as firewall administration, IT project management, cloud computing, and student career planning.

SEVERAL CONTRACTUAL RESEARCH PROJECTS WERE ALSO

CONDUCTED BY THE COLLEGE AND THE DEPARTMENTS IN THE PAST YEARS, INCLUDING:

- Development of mobile apps for the IGA, by the Mobile Computing Research Group.
- Development of the Bahrain eServices Index and several years of assessing the index for the eGovernment services in Bahrain.
- Market analysis for Tamkeen, conducted by researchers from the IS Department.
- Design of a Smart City Framework for the Kingdom of Bahrain.



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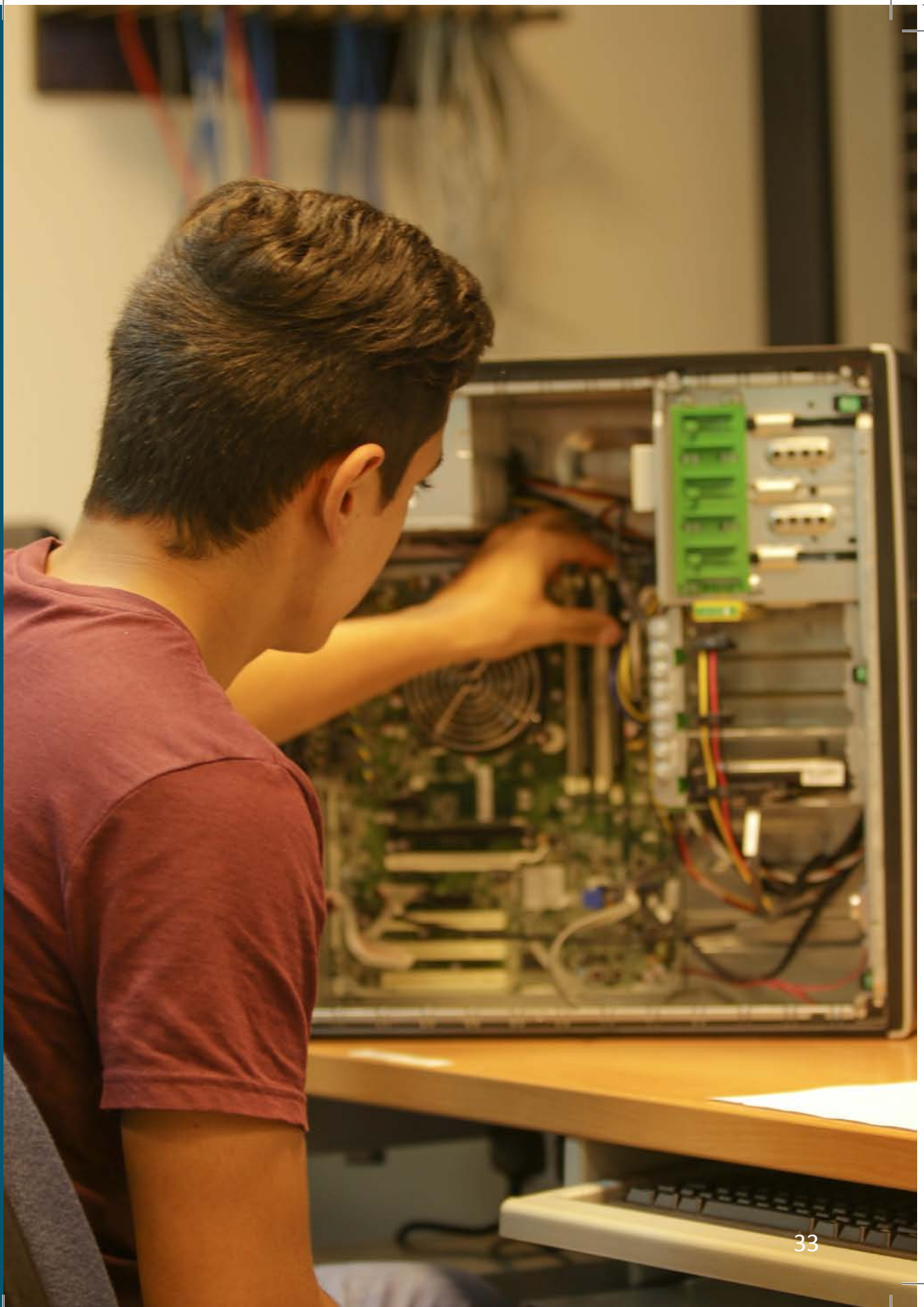
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