COLLEGE OF

INFORMATION TECHNOLOGY

UNIVERSITY OF BAHRAIN
BRIDGE TO THE FUTURE

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 and and Prime Minister

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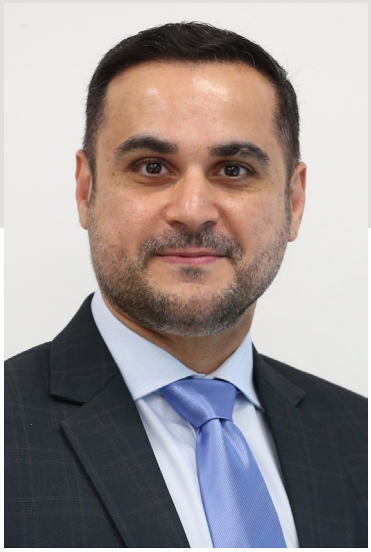
DEAN'S MESSAGE



At the College of Information Technology continues to strengthen its role as a leading center for computing education, research, and innovation in the Kingdom of Bahrain. With a comprehensive academic portfolio spanning **five undergraduate programs, multiple specialized Master's programs**, and a **Doctor of Philosophy in Computing and Information Sciences**, the College offers a complete and progressive pathway for students and professionals seeking advanced knowledge in the digital domain.

Our undergraduate programs in **Computer Science, Software Engineering, Information Systems, Computer Engineering, Network Engineering**, and **Cybersecurity** provide students with strong foundations in computing theory, practical skills, and the habits of analytical and responsible thinking. These programs prepare graduates for diverse roles across sectors that increasingly rely on digital technologies and data-driven solutions.

At the postgraduate level, the College offers a rich suite of programs designed to deepen expertise and support both professional growth and research excellence. These include the **Master of Science in Machine Learning and Computational Intelligence, Master of Science in Cybersecurity,** as well as collaborative offerings such as the **Master of Science in Big Data Science and Analytics** and **Master of Science in Financial Technology.**

We are also proud to introduce our newest program, the **Master of Science in Applied Artificial Intelligence**, designed to equip non-IT learners with advanced AI competencies, practical modeling skills, and the ability to innovate in emerging application domains.

Our **Doctor of Philosophy in Computing and Information Sciences** further anchors our commitment to research, enabling scholars to pursue advanced investigation,

contribute original knowledge, and generate impactful solutions that serve both industry and society.

Across all programs, the College fosters an environment grounded in academic rigor, collaboration, and purposeful innovation. With modern laboratories, active research groups, and strong partnerships across public and private sectors, we ensure that our students gain the knowledge, experience, and confidence needed to succeed in a rapidly evolving digital landscape.

I invite you to explore the programs in this booklet and join a community dedicated to excellence, integrity, and a forward-looking vision for the future of computing.

Dr. Mazen Ali
Dean, College of Information Technology
University of Bahrain

THE COLLEGE

ABOUT THE COLLEGE

The College of Information Technology was established in 2003 and since then it pursues to be known as a world-class College that excel in learning, research and entrepreneurship in information technology.

The College of Information Technology seeks to contribute directly to the economic growth and development of the Kingdom of Bahrain by preparing graduates that are internationally recognized and are regionally competitive within their field of specialization, supported by leading edge learning and teaching, research with national and regional impact, local engagement and international reputation.

The College of Information Technology is offering its programs to be in line with the changing needs of the labor market, the College continuously updates and offers new programs. All undergraduate programs are designed to be aligned and benchmarked with the curricula recommendations of professional societies in IT such as the ACM, IEEE, and AIS. The Bachelor of Science Programs in Computer Engineering, Computer Science, and Information systems have been accredited by ABET since 2010.

Along with the ABET accreditation, the College programs have undergone continuous improvements and reviews and received full confidence from the Education and Training Quality National Authority for its undergraduate programs in 2020 ,2014, and 2025. The programs were placed successfully on the National Qualifications Framework. It is worth mentioning that the Computer Science, Computer Engineering, and Information Systems Programs were was among the first batch in the Kingdom of Bahrain to be placed on the National Qualifications Framework.

Furthermore, the College offers postgraduate programs that include a Doctor of Philosophy program in Computing and Information Sciences and, Master programs in Cybersecurity, and Machine Learning and Computational Intelligence, and Applied Artificial Intelligence. The postgraduate programs target IT professionals and provide advanced topics in the field of IT. Furthermore, the College provides leadership in research and innovation locally and regionally through its applied research and engagement with the IT industry in Bahrain. Several research groups work within the College, and they serve the community through contractual research, consulting services, and application and software development. These include groups in areas such as Cybersecurity, Fintech, Mobile Computing, Applied Data Science, Telematics, and Intelligent Systems.

The College has national and international collaborations with organizations and leading Technology companies, examples are, the European Organization for Nuclear

Center (NSC), Benefit Bahrain, Amazon Webservices (AWS), Huawei Technologies, and Oracle. In addition, the College is a member of the Colleges of Computing and Information Society under the Association of Arab Universities.

All the programs at the college are supported by state of art facilities which include 34 laboratories including specialized labs such as a cluster for high performance computing sponsored by Benefit company, and ICT laboratory sponsored by Huawei Technologies. The students benefit from academies such as Huawei ICT academy and Oracle academy. The college organizes the annual international conference on Innovation and Intelligence For Informatics, Computing, and Technologies (3ICT) to support innovation and demonstrate trending topics.

TIMELINE

IN THE EARLY

2003

the College of Information Technology is established with three departments offering 3 undergraduate programs, long experienced faculty in the field of ICT, and excellent infrastructure.

IN THE YEAR

2010

the Bachelor of Science programs in Computer Science, Computer Engineering and Information Systems are accredited by ABET, https://www.abet.org.

IN THE YEAR

2011

the Bachelor of Science program in Information Technology has been offered.

IN THE YEAR

2017

the Master of Science in Cybersecurity and Bachelor of Science in Network Engineering, Bachelor of Science in Software Engineering programs.

IN THE YEAR

2016

the Bachelor of Science programs in Computer Science and Information Systems are re-accredited (2nd time) by the Computing Accreditation Commission of ABET, https://www.abet.org.

IN THE YEAR

2014

the Bachelor of Science program in Computer Engineering is re-accredited (2nd time) by the Engineering Accreditation Commission of ABET, https://www.abet.org.

the Bachelor of Science programs in Computer Science, Computer Engineering and Information Systems are placed on the National Qualification Framework (NQF).

IN THE YEAR

2019

the Doctor of Philosophy program in Computing and Information Sciences has been offered.

IN THE YEAR

2020

the Bachelor of Science program in Computer Engineering is re-accredited (2nd time) by the Engineering Accreditation Commission of ABET, https://www.abet.org.

the Bachelor of Science program in Computer Science – Cloud Computing has been offered.

IN THE YEAR

2021

the Bachelor of Science programs in Computer Science, Computer Engineering and Information Systems are re-validated with the National Qualification Framework (NQF).

the Bachelor of Science program in Machine Learning and Computational Intelligence, and B.Sc. program in Cybersecurity have been offered.

the Benefit Advanced AI and Computing Lab is established to support advanced research and development of artificial intelligence and computing technologies.

TIMELINE

IN THE EARLY

2022

the Cloud Innovation Center, established in partnership with AWS and Tamkeen, aims to foster collaboration with public sector organizations.

the Bachelor of Science programs in Computer Science and Information Systems are re-accredited (3rd time) by the Computing Accreditation Commission of ABET, https://www.abet.org.

the Master of Science program in Information Technology was placed on the National Qualification Framework (NQF) .

IN THE YEAR

2024

all Bachelor of Science programs are developed according to well-established ACM/IEEE and ABET benchmarking standards and have been submitted for review by the Bahrain Education and Training Quality Authority (BQA).

the Huawei ICT Academy lab is established to enhance ICT education, develop technical skills, offers certifications, promote innovation and facilitate industry-academia collaboration.

IN THE YEAR

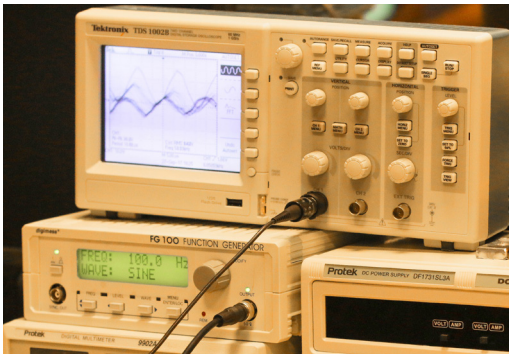
2025

the Master of Science program in Applied Artificial Intelligence has been offered.

OBJECTIVES

College Operational Objectives 2023-2026

1. Enhance Faculty and Staff Professional Development
2. Generate Revenues from Training and Scientific Activities
3. Digitize Course Materials
4. Excel in Preparing Students
5. Promote Research and Scholarly Activities
6. Promote Innovation and Entrepreneurship
7. Sustain Academic Programs Alignment with the Labor Market
8. Serve the Community in Continuing Education
9. Excel in Offering High Quality Programs
10. Assure Integrated Learning Environment
11. Collaborate with Partners to Strengthen the College›s Position and Role



COLLEGE'S ADMINISTRATION

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.

College's Quality Assurance Director:
Executes and monitors quality assurance activities within the college, to ensure compliance, assessment and accreditation activities are implemented efficiently to satisfy the processes of program evaluation and continuous improvements.

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science was established in 1989 under the College of Science. After the establishment of the College of Information Technology in 2003, the Department was shifted to the College of Information Technology. The department comprises a team of faculty members who excel in both teaching and research. Specializing in areas such as artificial intelligence, software engineering, cybersecurity, algorithms, and applied big data analytics.

Offering a range of programs, including Bachelor of Science degrees in Computer Science, Software Engineering, along with Doctor of Philosophy in Computing and Information Sciences, and Master of Science in Machine Learning and Computational Intelligence, the department prepares students for careers in IT. The curriculum covers essential areas such as computer programming, system analysis and design, cloud computing, artificial intelligence, cybersecurity, and software development, while also fostering research and graduate studies in computing.

Located in the College of Information Technology Building S40 on the UOB campus in Sakhir, the department features 10 computer laboratories, including the prestigious Benefit AI and HPC lab. The programs adhere to international standards like the ACM 2024/IEEE curricula and have been integrated into the Bahraini National Qualifications Framework since 2015. Notably, the Bachelor of Science. program in Computer Science is accredited by the Computing Accreditation Commission of ABET. Explore more at https://www.abet.org.

PROGRAMS MANAGED BY THE DEPARTMENT INCLUDE:

- Bachelor of Science in Computer Science
- Bachelor of Science in Software Engineering
- Master of Science in Machine Learning and Computational Intelligence
- Doctor of Philosophy in Computing and Information Sciences

DEPARTMENT OF COMPUTER ENGINEERING

The Department of Computer Engineering was established in 2003 offering the Bachelor of Science in Computer Engineering which was under the Department of Electrical and Electronics Engineering at the College of Engineering since 2001. The department consists of a team of faculty members who excel in both teaching and research. The faculty members specialize in areas such as digital design, embedded systems, computer architecture, electronics, computer networks, telecommunications, cyber security and machine learning.

The department offers a range of programs including the Bachelor of Science degree in Computer Engineering, the Bachelor of Science degree in Network Engineering, the Bachelor of Science degree in Cyber Security and manages the Associate Degree in Information Technology exit program. The curriculum covers essential areas such as computer programming, digital design, computer architecture, electronics, embedded systems, signals and systems, computer networks, cybersecurity, and internet of things.

The department is located in building S40 in UOB campus in Sakhir. The department features 10 specialized laboratories, including computer labs, network lab, digital design lab, electronics lab, cybersecurity lab, Huawei ICT academy lab and Internet of Things lab. The programs aligned with to international standards like the ACM 2024/IEEE curricula and have been integrated into the Bahraini National Qualifications Framework.
The Bachelor of Science in Computer Engineering program is accredited by the Computing Accreditation Commission of ABET. More details can be found at https://www.abet.org.

THE DEPARTMENT MANAGES THE FOLLOWING PROGRAMS:

- Bachelor of Science in Computer Engineering
- Bachelor of Science in Network Engineering
- Master of Science in Cybersecurity
- Associate Degree in Information Technology (Exit Program)

DEPARTMENT OF INFORMATION SYSTEMS

In 1998, the Bachelor of Science in Business Information Systems was first offered under the College of Business Administration, and after the establishment of the College of Information Technology in 2003, the program was transferred to the Department of Information Systems, and subsequently the program name was changed to Bachelor of Science in Information Systems.. The department includes expert faculty specializing in areas such as system analysis and design, electronic business, innovation and entrepreneurship dedicated to providing a comprehensive and high-quality education in the field.

The department also offers a Bachelor of Science in Cybersecurity to meet the growing demands in this critical field. This program is designed to equip graduates with a comprehensive and up-to-date skill set across all facets of cybersecurity. Students will gain the expertise necessary for evaluating, designing, and supporting cybersecurity solutions tailored to the needs of the industry.

In addition to serving its programs and the courses for the College of Information Technology, the department offers general IT service courses to the undergraduate programs in the colleges of Business Administration, Arts, Law, and the Department of Physical Education. In addition, since 2017, the department has offered the Fundamentals of ICT course for the orientation program, which is taken by all students that enter this program prior to joining their respective colleges.

Situated in the College of Information Technology Building S40 on the UOB campus in Sakhir, the department features nine state-of-the-art computer laboratories. The programs offered by the department align with international standards such as ACM 2024/IEEE and the Association for Information Systems (AIS) curricula. Additionally, these programs have been integrated into the Bahraini National Qualifications Framework since 2015, ensuring a high-quality education that meets both local and global benchmarks.

Notably, the Bachelor of Science program in Information Systems is accredited by the Computing Accreditation Commission of ABET. Explore more at https://www.abet.org.

PROGRAMS MANAGED BY THE DEPARTMENT INCLUDE:

- Bachelor of Science in Information Systems
- Bachelor of Science in Cybersecurity
- Master of Science in Applied Artificial Intelligence

INFRASTRUCTURE

The College of Information Technology has an excellent infrastructure and is well-equipped to provide a robust learning environment that includes well equipped classrooms, specialized laboratories with advanced hardware, reliable software, high-speed networking, and comprehensive support services such as students lounge, IT Library, food courts. This arrangement ensures that students and faculty have access to the necessary tools and resources for effective teaching, learning, and research.

The College has 34 laboratory and proud to offer three specialized laboratories:

THE BENEFIT ADVANCED ARTIFICIAL INTELLIGENCE AND COMPUTING LABORATORY:

Through a distinguished partnership between the University of Bahrain and the Benefit Bahrain Company, which is well known for initiatives employing modern technologies and innovation for developing the Bahraini economy and the financial sector, the company supported the establishment of an advanced laboratory for Artificial Intelligence and computing; which will serve many scientific programs and research projects. This national project is comprised of multiple compute nodes and fast technology that will be used in parallel to perform machine learning and model training tasks quickly and efficiently. This equipment will be a national resource available to all researchers, students and entrepreneurs in the Kingdom of Bahrain, especially working on AI, high performance computing, FinTech, Health Tech, and other technologies that require HPC (https://ailab.uob.edu.bh/)

CLOUD INNOVATION CENTER:

The University of Bahrain's Cloud Innovation Center Program was established in collaboration with Tamkeen and Amazon Web Services (AWS) to provide an opportunity to collaborate with other public and private sectors organizations on their most pressing challenges, test new ideas with Amazon's innovation process, and access the technology expertise of AWS. Organizations bring their expertise and work through a challenge engagement, uncover new ways to solve complex problems, and publish their lessons learned to further drive public sector innovation (https://cic.uob.edu.bh/).

HUAWEI ICT ACADEMY LABORATORY:

Huawei ICT Academy is a partnership between Huawei and University of Bahrain. Through this partnership, the Academy delivers Huawei ICT technologies training, encourages students to get Huawei certification, and develops talents with practical skills for the ICT industry and the community. The lab is equipped with variety of advanced tools such as routers, switches, high-performance servers, cloud computing, network simulation software, IoT kits, AI and Cybersecurity tools and software (https://e.huawei.com/en/talent/ict-academy/).

UNDERGRADUATE INFORMATION

Bachelor of Science IN COMPUTER SCIENCE

The Bachelor of Science degree in Computer Science prepares prepares students to excel in the field of information technology, scientific research, and graduate studies, in various number of fields including artificial intelligence, database management systems, web development, mobile application development, software engineering, computer and network security, data mining, computer architecture, software engineering, cloud computing, and parallel computing.

The program equips graduates with the essential skills in problem-solving, critical thinking, and logical reasoning, which are crucial for designing and developing innovative solutions to complex technological challenges. The program integrates scientific knowledge with practical computing skills to enable graduates to compete in the labor market, Pursue a successful career in the IT sector and prepare them to pursue higher studies. The Computer Science program is designed according to the international platforms such as ACM/IEEE, and the local industry needs.

The Bachelor of Science program in Computer Science is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org/, and was listed on the National Qualifications Framework since 2015.

Overall, the B.Sc. in Computer Science offers students a blend of theoretical knowledge and practical skills, preparing them for successful careers in the dynamic and ever-expanding field of computer science and technology.

ADMISSION

The program accepts secondary school graduates from the Science, Unified Tracks: Science, Nasser Centre for Science and Technology (NCST) (Engineering, IT) or equivalent in private schools.

In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:

- Have a high school diploma/ secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of %85 in the General Secondary School Certificate or its equivalent.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology programs will undergo an Orientation Program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies. .

A student may be exempted from the Orientation Program if he/she meets one of the following conditions:

- The overall high school GPA is %90 or higher.
- The score in the English language in the high school certificate is %90 or higher.
- he student passed the University›s exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the Bachelor of Science in Computer Science degree, he/she must complete 130 credits.
The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.

CAREER OPPORTUNITIES

Software Development: Software Engineer, Software Developer, Web Developer, Mobile App Developer, UI/UX Designer, Quality Assurance (QA) Engineer.
Project and Product Management: Project Manager, Product Manager
Cloud Computing: Cloud Solutions Architect
Database Management: Database Administrator, Database Designer/Developer
Analysis: Systems Analyst, Data Scientist, Data Analyst
Security and Risk Management: Information Security Analyst, IT Auditor
Artificial Intelligence specialist: Machine Learning Engineer, Computer Vision Engineer, Natural Language Processing (NLP)
Specialized Roles: IT Consultant, Optimization Analyst/Engineer, Algorithms and Data Structures Specialist/Engineer, Distributed Systems Architect

Bachelor of Science in Software Engineering

The Bachelor of Science degree in Software Engineering prepares students to excel on implementing the principles and practices of designing, developing, and maintaining software systems. This program delves deep into software development methodologies, project management, quality assurance, and software architecture to equip students with the skills necessary to build robust and scalable software solutions. Students pursuing a Bachelor of Science in Software Engineering learn how to apply engineering principles to the entire software development process, from requirements gathering and analysis to design, implementation, testing, and maintenance. They gain expertise in programming languages, software development tools, version control systems, and best practices for developing high-quality software products.

The program integrates scientific knowledge with practical skills in Software Engineering to enable graduates to compete in the labor market, pursue a successful career in the IT sector and prepare them to pursue higher studies. The Software Engineering program is designed according to international standards such as the ACM/IEEE, local industry needs and compliant with ABET requirements.

Admission

- The program accepts secondary school graduates from the Science, Unified Tracks: Science, Nasser Centre for Science and Technology (NCST) (Engineering, IT) or equivalent in private schools.
- In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:
- Have a high school diploma/secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of %85 in the General Secondary School Certificate or its equivalent.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology programs will undergo an Orientation Program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies.

A student may be exempted from the Orientation Program if he/she meets one of the following conditions:

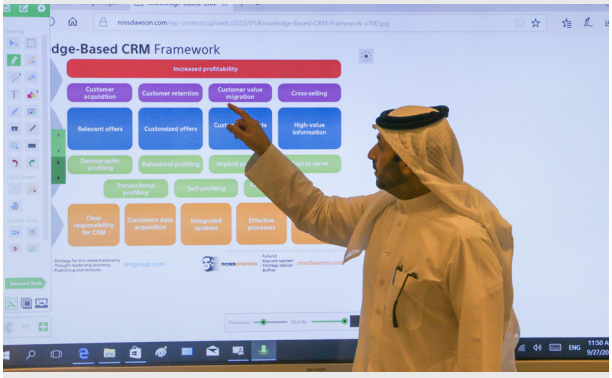
- The overall high school GPA is %90 or higher.
- The score in the English language in the high school certificate is %90 or higher.
- The student passed the University›s exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the Bachelor of Science in Software Engineering degree, he/she must complete 134 credits.

The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.



CAREER OPPORTUNITIES

- **Software Development:** Software Engineer, Software Developer, Web Developer, Mobile App Developer, UI/UX Designer, Quality Assurance (QA) Engineer, DevOps Engineer, Software Architect.
- **Project and Product Management:** Project Manager, Product Manager
- **Cloud Computing:** Cloud Solutions Architect
- **Database Management:** Database Administrator, Database Designer/Developer
- **Analysis:** Systems Analyst, Data Scientist, Data Analyst
- **Security and Risk Management:** Information Security Analyst, IT Auditor
- **Specialized Roles:** Machine Learning Engineer, IT Consultant

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

The Bachelor of Science degree in Computer Engineering combines principles of computer science and electrical engineering. This program equips students with a strong foundation in both hardware and software design, enabling them to develop innovative solutions for complex technological challenges. Through a blend of theoretical coursework and hands-on laboratory experiences, students gain proficiency in programming, circuit design, and systems integration and are trained to apply engineering principles to the design and development of computing systems. The curriculum also emphasizes critical thinking and problem-solving skills, preparing graduates for diverse careers in information technology.

ADMISSION

The program accepts secondary school graduates from the Science, Technology, Developed Technology, Technology Stream, Unified Tracks, Technical: Nasser Centre for Science and Technology (NCST)

In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:

- Have a high school diploma/ secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of 80% in the General Secondary School Certificate or its equivalent.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology programs will undergo an Orientation Program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies.
A student may be exempted from the Orientation Program if he/she meets one of the following conditions:

- The overall high school GPA is 90% or higher.
- The score in the English language in the high school certificate is 90% or higher.
- The student passed the University's exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the B.Sc. in Computer Engineering degree, he/she must complete 140 credits. The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.

CAREER OPPORTUNITIES

Some of the career opportunities for computer engineering graduates include:

- **Software development:** Software engineer, application developer, system programmer.
- **Hardware engineering:** Hardware engineer, circuit designer, electronic systems designer.
- **Network engineering:** Network engineer, Network architect, Network administrator, system analyst, cloud engineer, cloud architect, telecommunications engineer.
- **Cybersecurity:** Security analyst, Penetration tester, Cybersecurity consultant.

BACHELOR OF SCIENCE IN NETWORK ENGINEERING

The Bachelor of Science degree in Network Engineering focuses on the design, implementation, and management of computer networks, preparing students for a dynamic and essential field in today's digital world. This program covers a wide range of topics, including network protocols, cybersecurity, and cloud computing, providing students with both theoretical knowledge and practical skills. Through hands-on labs and real-world projects, students learn to configure and troubleshoot networks, ensuring efficient and secure data communication. The curriculum also emphasizes critical thinking and problem-solving, equipping graduates to tackle complex networking challenges in various sectors.

ADMISSION

The program accepts secondary school graduates from the Science, Technology, Developed Technology, Technology Stream, Unified Tracks, Technical: Nasser Centre for Science and Technology (NCST)

In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:

- Have a high school diploma/ secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of 80% in the General Secondary School Certificate or its equivalent.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology programs will undergo an Orientation Program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies.

A student may be exempted from the Orientation Program if he/she meets one of the following conditions:

- The overall high school GPA is 90% or higher.
- The score in the English language in the high school certificate is 90% or higher.
- The student passed the University's exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the Bachelor of Science in Network Engineering degree, he/she must complete 140 credits. The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.

CAREER OPPORTUNITIES FOR NETWORK ENGNIEERING

Some of the career opportunities for computer engineering graduates include:

- **Software development:** Software engineer, application developer, system programmer.
- **Network engineering:** Network engineer, Network architect, Network administrator, system analyst, cloud network engineer, cloud architect, network operation center technician, network project manager, telecommunications engineer.
- **Cyber security:** Security analyst, Penetration tester, Cybersecurity consultant, network security engineer

BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

The Bachelor of Science degree in Information Systems provides students with both technical and business skills demanded in the job market to design and implement effective solutions to meet organizational and management needs. Students are also prepared to lead managerial and entrepreneurship careers.

The program centers around using ICT to efficiently and effectively enhance the performance of individuals and organizations in their work. Information Systems professionals will be involved in not only designing and developing systems but also in understanding business processes and requirements to enhance and develop these systems.

The program curriculum has been developed based on international standards such as ACM and AIS, and local industry needs. This makes the Bachelor of Science in Information Systems a unique program as it not only meets the ACM-AIS standard but at the same time contributes to the Kingdom of Bahrain's economic development by ensuring that the Information Systems graduates are demanded by the job market.

The Bachelor of Science in Information Systems is accredited by the Computing Accreditation Commission of ABET, https://www.abet.org, and was listed on the National Qualifications Framework since 2015.

ADMISSION

The program accepts secondary school graduates from the following tracks: Science, Commercial, Technology, Developed Commercial, Developed Technology, Commercial Stream, Technology Stream, Unified Tracks, Technical: Nasser Centre for Science and Technology (NCST)

In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:

- Have a high school diploma/ secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of %85 in the General Secondary School Certificate or its equivalent, with no less than %66.6 for students with disabilities.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology (IT) programs, will undergo an orientation program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies. and 3 hours of Math course. A student may be exempted from the orientation program if he/she meets one of the following conditions:

- The overall high school GPA is %90 or higher.
- The score in the English language in the high school certificate is %90 or higher.
- The student passed the University›s exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the Bachelor of Science in Information Systems degree, he/she must complete 130 credit hours distributed as follows:

The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.

CAREER OPPORTUNITIES

- **Information Systems Development and Design:** Application Designer/ Developer, Database Designer/Developer, Interface and User Experience Designer, IT Solutions Specialist
- **Analysis:** Information Systems Analyst, Computer Systems Analyst, Data Analyst, Business Analyst, Business Intelligence Specialist
- **Management and Strategy:** Information Systems Manager, IT Project Manager, IT Director, IT Consultant
- **Security and Risk Management**: IS Auditor, Information Security Analyst, IT Risk and Assurance Manager
- **Specialized Roles:** AI Specialist, Blockchain and Cryptocurrency Specialist

Bachelor of Science in Cybersecurity

The Bachelor of Science degree in Cybersecurity prepares students to identify, combat, mitigate, and prevent cybersecurity risks in organizations. Skills taught in the program cover a wide range of crucial threats and risks detection and prevention techniques, IT security analysis and auditing, secure development, cryptography, and cryptoanalysis, and many more.

The program is primarily aimed at bridging the gap in the field of cybersecurity and information security at local and global level. The program is designed to encompass the essential core IT and security courses along with a curated list of relevant courses from across the programs of the College of Information Technology, mainly Information Systems, Computer Science, and Network Engineering programs. This creates a multi-lens and interdisciplinary critical approach to studying Cybersecurity. Additionally, the program offers courses and topics identified and recommended by the local and regional employers, as well as preparing its students to complement their knowledge with professional certificates during or after their studies.

The program follows the Cybersecurity curriculum guidelines set by the leading established bodies ofACM, IEEE and AIS. It is benchmarked with the recognized renowned programs and is prepared to meet the requirements of the local and global accreditation bodies ensuring that the Quality Assurance is practiced and maintained throughout the program like the other accredited programs offered by the college.

Admission

The program accepts Secondary school graduates from the Science, Technology, Developed Technology, Technology Stream, Unified Tracks, Technical: Nasser Centre for Science and Technology (NCST) or equivalent in private schools.
In addition to the general admission requirements of the University of Bahrain, applicants must meet the following criteria:

- Have a high school diploma/secondary school certificate from the above-mentioned tracks.
- Attain a minimum grade of %85 in the General Secondary School Certificate or its equivalent.
- Not more than 2 years should have passed since obtaining the high General Secondary School Certificate.

Students accepted into the College of Information Technology programs, will undergo an Orientation Program before starting their chosen program of study. This program aims to equip students with the necessary English language, ICT, and Math skills before beginning their undergraduate studies.

A student may be exempted from the Orientation Program if he/she meets one of the following conditions:

- The overall high school GPA is %90 or higher.
- The score in the English language in the high school certificate is %90 or higher.
- The student passed the University›s exemption exam, TOEFL test with a score of 500 or more, or the IELTS with a score of 5.5 or more.

GRADUATION REQUIREMENTS

For a student to be awarded with the Bachelor of Science in Cybersecurity degree, he/she must complete 131 credit hours distributed as follows:

The following conditions shall be met for the students to graduate from the University:

- Successfully passing all the courses required for graduation.
- Achieving no less than the minimum GPA required for graduation (2.00 out of 4.00).
- Achieving no less than the minimum Major GPA required for graduation (2.00 out of 4.00) in the average of the major included in the program.

CAREER OPPORTUNITIES

- **Cybersecurity Operations:** Cybersecurity Analyst, Security Engineer, Security Administrator, Incident Response Specialist, Security Technical Support
- **Security Assessment and Testing:** Penetration Tester, Ethical Hacker, Vulnerability Assessor, Digital Forensic Analyst
- **Security Design and Architecture:** Cybersecurity Designer/Architect, Cloud Security Specialist, Network Security Specialist
- **Management and Consulting:** Security Manager, Chief Information Security Officer, Cybersecurity Consultant, Security Consultant
- **Auditing and Compliance:** Cybersecurity Auditor, Information Security Specialist
- Incident Management and **Training:** Security Incident Manager, Security Trainor/ Educator, Identity and Access Management Specialist

MASTER OF SCIENCE IN MACHINE LEARNING AND COMPUTATIONAL INTELLIGENCE

The Master of Science degree in Machine Learning and Computational Intelligence aims to prepare candidates with the theoretical and practical knowledge that can be applied to real-world systems and processes. Courses deeply explore areas of AI, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, and Big Data Analytics. The program offers an advanced level of learning by providing critical understanding of the theories, concepts and techniques for the design, development and effective use of Machine Learning and Computational Intelligence in different applications.

Graduates of this program are expected to be highly qualified for prolific careers in the IT industry. Moreover, they shall gain the knowledge needed to be able to analyze, evaluate, and contribute to different emerging research areas in AI and Machine Learning. The program should mold the students to become professionally enriched with communication, technical and innovative skills, while at the same time instilling in them an understanding of professional and ethical issues.

ADMISSION CRITERIA

1. The applicant must hold a bachelor›s degree from the University of Bahrain, or another university recognized by competent authorities, in a discipline which qualifies them for the programme they intend to pursue, with a cumulative Grade Point Average (GPA) of no less than 2.33 out of 4.0 points or equivalent thereof in other grading systems.

2. Applicants with a GPA lower than 2.33 but no less than 2.00 may be accepted if they have at least one year of work experience in the field of specialization they wish to study, as determined by the relevant academic department if the need arises, or if the applicant is a sponsored student.

3. The applicant must hold an IELTS academic English Language certificate or an equivalent thereof with a score of no less than 5.5 or pass the English language examination administered by the University. Applicants are exempted from the English language requirement if %90 or more of the instruction language in the programme they wish to enroll in is in Arabic.

4. The applicant must meet any other requirements specified in the programme admission requirement.

GRADUATION REQUIREMENTS

Pass 33 credits hours of courses with a CGPA 3.0 or above and others as specified in Graduate Studies Rules

1. To obtain a master's degree, the student must successfully pass all the hours of the program and obtain a cumulative average of not less than (3.00) out of (4.00) according to the points system and accept his thesis or applied project.

1. Approving the student's result in discussing his thesis with a passing / failing grade (80 degrees or more) and calculating the cumulative average based on the grade obtained in the courses during his studies at the master›s level

2. The maximum completion of Master's requirements - including the Higher Diploma stage - is eight semesters.

MASTER OF SCIENCE IN APPLIED ARTIFICIAL INTELLIGENCE

The Master of Science in Applied Artificial Intelligence is designed for individuals from non-IT backgrounds seeking to leverage Artificial Intelligence (AI) and intelligent systems in their original fields. This program combines knowledge and practical skills in AI, data analysis, and intelligent software development. Students will engage in hands-on projects and collaborative learning, preparing them to tackle real-world challenges across various industries.

By equipping graduates with essential AI skills, the program empowers them to implement innovative solutions within their current fields or pursue new career opportunities in the IT sector. The program aims to foster professionals who can leverage AI to enhance organizational effectiveness, drive innovation, and positively impact their communities.

Moreover, the program prepares graduates for advanced academic pursuits, such as PhD programs in IT, enabling them to engage in cutting-edge research and contribute to technological advancements.

ADMISSION CRITERIA

The entry requirements for the Master of Science in Applied Artificial Intelligence is according to Postgraduate Studies bylaws and Regulations of University of Bahrain as follows:

-The applicant must hold a bachelor's degree from the University of Bahrain, or another university recognized by competent authorities, in any non-IT field which qualifies them for the programme they intend to pursue, with a cumulative Grade Point Average (GPA) of no less than 2.33 out of 4.0 points or equivalent thereof in other grading systems.
-Applicants with a GPA lower than 2.33 but no less than 2.00 may be accepted if they have at least one year of work experience in the field of specialization they wish to study, as determined by the relevant academic department if the need arises, or if the applicant is a sponsored student.
-The applicant must hold an IELTS academic English Language certificate or an equivalent thereof with a score of no less than 5.5 or pass the English language examination administered by the University. Applicants are exempted from the English language requirement if %90 or more of the instruction language in the programme they wish to enroll in is in Arabic.

-The applicant must meet any other requirements specified in the programme admission requirement.
-The program is intended for graduates of Bachelor›s degree from the University of Bahrain, or another university recognized by competent authorities, in any non-IT field related to Science (Biology, Physics, Mathematics, Chemistry), Engineering (Civil, Architecture, Interior Architecture, Chemical, Electrical, Electronics and Communication, Process Instrumentation and Control, Mechanical), Business (Business Analytics, Entrepreneurship, International Business And Economics, Islamic Banking & Finance, Marketing, Business Management, Banking & Finance, Accounting), Health and Sports Sciences (Physical Education, Radiologic Diagnostic Technology, Pharmacy, Medical Laboratory Science, Nursing), Arts (Arabic Language and Literature, Islamic Studies, Mass Communication, Tourism, Arts and Design, English Language and Literature, History), Law, Education, Social Sciences and psychology.
-Graduates with minors in Information Technology are also accepted to the program.

GRADUATION REQUIREMENTS

To graduate from the program, students must fulfill all requirements according to Postgraduate Studies bylaws and Regulations of University of Bahrain and satisfy the following:

1. Pass 33 credits hours of courses with a CGPA 3.0 or above and others as specified in Graduate Studies Rules
2. To obtain a master's degree, the student must successfully pass all the hours of the program and Obtain a cumulative average of not less than (3.00) out of (4.00) according to the points system and accept his thesis or applied project.
3. Approving the student's result in discussing his thesis with a passing / failing grade (80 degrees or more) and calculating the cumulative average based on the grade obtained in the courses during his studies at the master's level.
4. The maximum completion of Master's requirements - including the Higher Diploma stage is eight semesters.

MASTER OF SCIENCE IN CYBERSECURITY

The Master of Science degree in Cybersecurity aims to prepare candidates with undergraduate degrees in IT disciplines for responsible leadership roles in the technology-based and information-based workplaces. The program offers an advanced level of learning by providing a thorough understanding of the theories, concepts and techniques for the design, development and effective use of secure information systems. Graduates of this program are then capable of looking at an organization from end-to-end and understanding its security needs, then designing the security and governance architecture that will satisfy its cybersecurity requirements. Adapting to change in the field and of leading with innovation and agility in solving community IT security challenges using the most effective tools and countermeasures.

ADMISSION CRITERIA

- The applicant must hold a bachelor's degree from the University of Bahrain, or another university recognized by competent authorities, in a discipline which qualifies them for the programme they intend to pursue, with a cumulative Grade Point Average (GPA) of no less than 2.33 out of 4.0 points or equivalent thereof in other grading systems.
- Applicants with a GPA lower than 2.33 but no less than 2.00 may be accepted if they have at least one year of work experience in the field of specialization they wish to study, as determined by the relevant academic department if the need arises, or if the applicant is a sponsored student.
- The applicant must hold an IELTS academic English Language certificate or an equivalent thereof with a score of no less than 5.5 or pass the English language examination administered by the University. Applicants are exempted from the English language requirement if 90% or more of the instruction language in the programme they wish to enroll in is in Arabic.
- The applicant must meet any other requirements specified in the programme admission requirement.

GRADUATION REQUIREMENTS

Pass 33 credits hours of courses with a CGPA 3.0 or above and others as specified in Graduate Studies Rules

1. To obtain a master's degree, the student must successfully pass all the hours of the program and

2. Obtain a cumulative average of not less than (3.00) out of (4.00) according to the points system and accept his thesis or applied project.

3. Approving the student's result in discussing his thesis with a passing / failing grade (80 degrees or more) and calculating the cumulative average based on the grade obtained in the courses during his studies at the master's level

4. The maximum completion of Master's requirements - including the Higher Diploma stage is eight semesters.

Doctor of Philosophy IN COMPUTING AND INFORMATION SCIENCES

The College of Information Technology offers a Doctor of Philosophy degree in Computing and Information Sciences to advance the qualification of professionals working in information technology and promote substantial research and development in this field. The Doctor of Philosophy program targets students who are seeking to investigate a highly specialized field of Computing and Information Sciences. Graduates of this program, use their advanced skills in applied research to target working in private industry and government, setting up a business as entrepreneur or contributes to academia by teaching at the university level.

ADMISSION

1. The applicant must hold a master›s degree or the equivalent thereof from the University of Bahrain or another university recognized by competent authorities, in a discipline that qualifies them for the programme they intend to pursue, with a cumulative GPA of no less than 3.0 out of 4.0 points or equivalent thereof.

2. The applicant must hold an IELTS academic English Language certificate or equivalent thereof with a score of no less than 5.5 or pass the English language examination administered by the University. Applicants holding a master›s degree from the University of Bahrain are exempted from the English language examination. Applicants are also exempted from the English language requirement if %90 or more of the instruction language in the programme they wish to enroll in is in Arabic.

3. The applicant must meet any other requirements specified in the programme admission requirements.

GRADUATE INFORMATION

1. Pass 75 credits hours of courses with a CGPA 3.0 or above and others as specified in Graduate Studies Rules
2. To obtain a doctoral degree, the student must successfully pass all the hours of the program and obtain a cumulative average of not less than (3) out of (4) according to the points system and accept his thesis or applied project.
3. Approving the student's result in discussing his thesis with a passing / failing grade (80 degrees or more) and calculating the cumulative average based on the grade obtained in the courses during his studies at the master›s level
4. The completion period of doctoral requirements is at least 7 semesters and a maximum of 12 semesters.

RESEARCH CAPABILITIES

The College of Information Technology has an excellent infrastructure to support research within the IT field. This includes:

Qualified Experts: More than 61 talented IT faculty including 51 holders of PhDs from prestigious international universities within the field; with specializations ranging from IT project management, database management, cloud computing, machine learning, artificial intelligence, software engineering, algorithms, cyber security; to others such as networking, embedded systems, and distributed sensor networks.

Laboratories: Several dedicated specialized labs in areas such as networking, data science, artificial intelligence, big data, mobile computing, decision support, and embedded systems.

Postgraduate Students: A few talented postgraduate students studying for their Master's and PhD's degrees and working on research topics within the IT field, under the supervision of the College faculty members.

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
- Cybersecurity
- 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 Cybersecurity Forum with several experts speaking about IT and cyber security and its effects on the Kingdom of Bahrain.
- The IT Entrepreneurship Forum with several speakers discussing the way forward in IT entrepreneurship.
- The UOB Smart City Hackathon with participants from 8 government and private-sector organizations and four colleges from UOB to discuss smart and sustainable city solutions and initiatives.
- The UOB hosts the annual International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT). This conference aims to provide a platform for researchers, industry practitioners, and academics to exchange the latest advancements in computing, advanced technologies, and innovative research.
- The College Faculty members actively engage in various community services including judging competitions, professional societies, workshops, seminars and mentoring projects. These activities not only benefit the community but also enrich the faculty members' professional experience and contribute to their personal growth.

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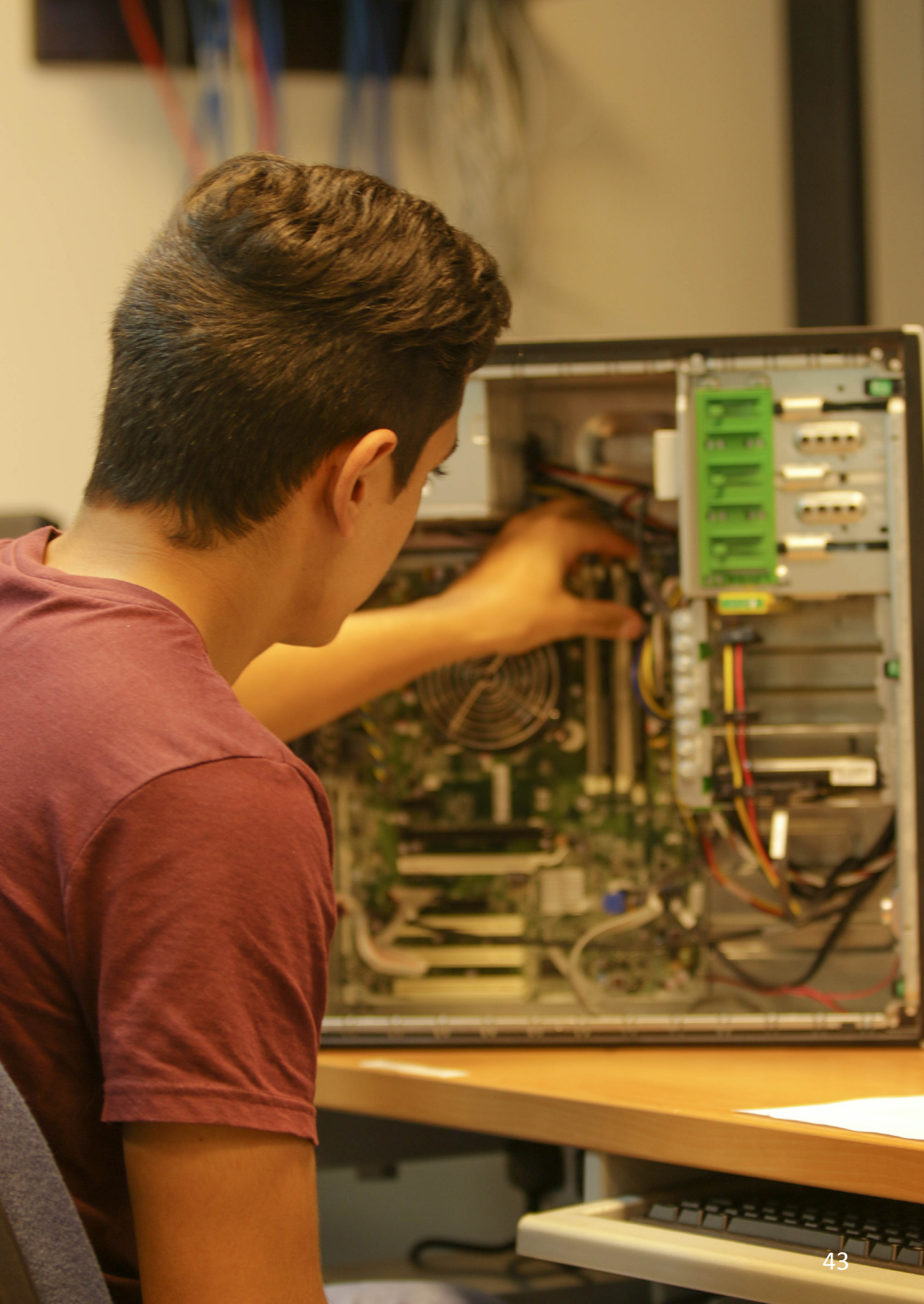

GET IN TOUCH

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