

# INFORMATION TECHNOLOGY AND COMPUTER SCIENCE

Degree Level: Postgraduate



CELEBRATING  
**20**  
YEARS  
OF EXCELLENCE

COLLEGE OF  
INFORMATION TECHNOLOGY



Qualification type

Master's Degree



Location

Main Campus



Study mode

Full Time



Duration

Two Years

## KEY FACTS

### Teaching Language

English

### Accreditation



مجلس التعليم العالي  
Higher Education Council

### NQF\*

Reference Q15-008 Level 9

### BQA\*\*

Full Confidence

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\*National Qualification Framework

\*\*The Education and Training Quality Authority

## OVERVIEW

Advanced Information Technology (IT) and Computer Science (CS) knowledge and skills are needed for industry and related fields of research. The IT Department has offered a Master's Degree in Information Technology and Computer Science (MITCS) since 2003.

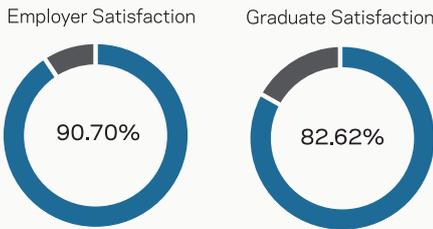
The MITCS programme covers advanced theoretical and practical concepts with a view to developing in its Master degree candidates a broad range of skills spanning software engineering, information systems, networking and security, and distributed systems and multimedia.

The landscape of Information Technology is rapidly changing as the computing field continues to evolve at astonishing pace and new technologies are continually introduced, therefore the MITCS programme is kept up-to-date by continuous review to address current developments in computing technologies and support graduate employability.

## PROGRAMME AIMS

- To equip students with advanced professional knowledge and skills in areas of information technology and computer science in accordance with international standards.
- To nurture an innovative research culture that encourages students and faculty to undertake independent and collaborative high-quality research.
- To enable students to identify multifaceted problems in their area of specialization and to design, analyze, implement and manage efficient solutions for them using current information technologies.
- To motivate graduates to apply tools, skills, and techniques of information technology in their current and future work environment to increase their organization's productivity and to gain a competitive advantage.
- To prepare graduates to demonstrate ethical behavior and to be professionally competent and motivated to life-long learning.

## GENERAL STATISTICS



## ENTRY REQUIREMENTS

Admission to Ahlia University (AU) is selective based on academic achievements. Applications are welcomed from all students regardless of race, colour, gender, religion, nationality, physical or learning disability. Admission is purely based on merit.

### General Requirements

Ahlia University accepts Master programme applicants holding undergraduate degrees to join the University as new students provided that they meet the entry and application requirements set by the University and are in-line with the Bahraini Higher Education Council requirements.

- The applicant must hold a recognised bachelor's degree or its equivalent
- The applicant must hold a recognised secondary school certificate or its equivalent.
- The applicant must be medically fit for the academic programme they wish to apply for.
- All applicants will be interviewed by a relevant programme committee
- Only successful applicants in the interview will be considered for admission.

The Admissions Committee reserves the right to stipulate deficiency requirements to any applicant offered admission where, in the judgment of the Committee, the mastery of the relevant subject matter has not been conclusively demonstrated by the academic transcript.

### Specific Requirements

The applicants who meet the following programme specific admission requirements will be admitted to the programme:

|   |  |
|---|--|
| <b>Master's Degree in Information Technology and Computer Science (MITCS)</b> | <b>A recognised bachelor's degree or its equivalent in any of the following disciplines:</b> <ul style="list-style-type: none"> <li>• Information Technology</li> <li>• Computer Science</li> <li>• Management Information Systems</li> <li>• Information Systems</li> <li>• Mathematical Sciences</li> <li>• Engineering; (electrical, communication, computer, informatics)</li> </ul> |
|   | Applicants who hold a recognised bachelor's degree in any discipline other than the ones mentioned above, may be considered subject to passing an interview and successful completion of the Foundation Courses identified by the interview committee.   |
|   | <b>(CGPA) requirement</b>  |

- Minimum CGPA normally required at the bachelor's degree  $\geq$  2.5 or its equivalent
- Applicants with CGPA lower than 2.5 but  $>$  2.0 or its equivalent at the bachelor's degree level, may be considered subject to passing the interview at the program level and successful completion of the Foundation Courses identified by the interview committee.

## FEES

The estimated duration for completion of the MITCS programme at Ahlia University is 2 years. This is structured around 36 credit-hours covering 8 courses along with a dissertation. The duration of study for each course is fifteen weeks, covering approximately 45 studying hours.

|   |                 |
|---|-----------------|
| Application Fee                           | BD 40           |
| Registration Fee                          | BD 300          |
| Foundation Courses (if applicable)        | BD 960          |
| Course Fees (8 Course, BD 480 per Course) | BD 5,760        |
| <b>TOTAL</b>                              | <b>BD 7,060</b> |

## PROGRAMME CONTENT & STRUCTURE

The MITCS programme consists of a total of 36 credits including six Core Courses (18 credits), two Elective Courses (6 credits), and a Dissertation comprising of (12 credits).

- The MITCS Programme is offered by the Department of IT in the College of IT in collaboration with the departments in the College of Engineering.
- Normally students need 2 - 1.5 years to successfully complete the programme.
- Students must score a CGPA of at least 3.0 to graduate from the programme.

### Employability

The MITCS Programme aims to provide graduates with the skills and knowledge required to take on appropriate professional positions in Information Technology upon graduation and grow into leadership positions or pursue research or graduate studies in the field.

However, the landscape of Information Technology is undeniably rapidly changing as the computing field continues to evolve at astonishing pace and new technologies are continually introduced. Thus, the MITCS Programme is kept up-to-date by developing revised and enhanced versions that address current developments in computing technologies.

Students will gain skills and knowledge in the key areas of IT and computer science including:

- Software engineering
- Information security
- Computer networks
- Cloud computing
- Data base
- Big data
- Data mining
- Mobile applications development
- Artificial intelligence
- Multimedia systems.