

# COMPUTER AND COMMUNICATION ENGINEERING

Degree Level: Undergraduate



Qualification type



Location



Study mode



Delivery Language



Duration

Bachelor's Degree

Main Campus

Full Time

English

Four Years

## KEY FACTS

### NQF\*

NQF Placed {2018}  
Reference Q17-034 Level 8

### BQA\*\*

Confidence (2016)

### Study Abroad

Yes

### Internship

Yes

### Contact Person

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### SDG



\*National Qualifications Framework

\*\*The Education and Training Quality Authority

## OVERVIEW

The Computer and Communication Engineering programme focuses on computer and communication engineering concepts and applications. The programme provides exposure to diverse cutting-edge technologies spanning computer architecture, microprocessors, embedded systems, digital signal processing, and modern digital and analogue communication systems.

The Computer and Communication Engineering undergraduate programme is under the Computer Engineering Department which has a highly qualified and diverse team of academic staff that provide students with inspiration and quality education in the theory and practice of computer and communication systems. The Computer Engineering Department has computer engineering labs equipped with the latest tools and technology to build creativity and inspire innovation.

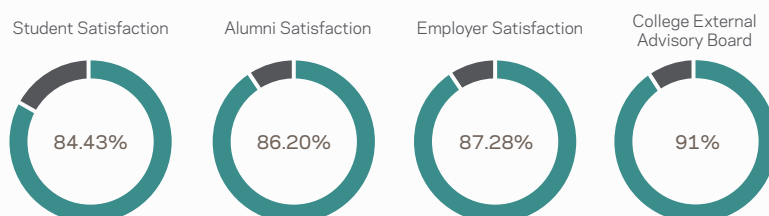
The Computer and Communication Engineering undergraduate programme is lined with the ABET accreditation and EUR-ACE accreditation to provide assurance that our programme meets the quality standards of the profession and give the BSCCE graduates an international accreditation for the national, GCC and international job market.

## PROGRAMME AIMS

The aim of the programme is to enable graduates to:

- To equip learners with in-depth knowledge and skills necessary to exhibit sustainable competence in the fields of computer and communication engineering in accordance with national and international standards.
- To enable learners to identify and solve multifaceted problems in their area of specialization with a view to designing, analyzing, implementing and managing efficient solutions germane to current Engineering technologies.
- To empower learners to successfully pursue careers as computer and communication engineers motivated to engage in research and life-long learning in ways that serve the societal needs.
- To instill in learners, who contribute productively to society through responsible professional engineering practice, norms of ethical behavior.

## 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

To be eligible for consideration for admission to the undergraduate programmes, applicants must meet the following entry requirements set by the university in-line with Bahrain Higher Education Council requirements:

- The applicant must hold a recognised and endorsed secondary school certificate or its equivalent
- The applicant must be medically fit for the academic programme they wish to enrol in

### Specific Requirements

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

Bachelor's Degree in Computer and Communication Engineering	Academic Score in the Secondary School Certificate (Tawjihia) or its Equivalent	
	Unconditional Acceptance	Tracks Accepted
	≥ 70%	Science, Technical & General

Candidates who do not meet the above criteria in terms of academic score and specialization may be conditionally accepted subject to passing an interview and evaluation at the college level.

### Orientation Programme

The Orientation Programme is a one-semester programme offered to full-time students who do not fully meet some of the admissions criteria ( eg. english proficiency) but intend to pursue their education at Ahlia University.

### Placement Tests

The university administers placement tests in English language and Mathematics. Students who pass these exams are exempted from the orientation programme.

## FEES

Structured around 134 credit-hours covering 45 courses. The duration of study for each course is fifteen weeks, covering approximately 45 lecture hours.

Application Fee	BD 20
Registration Fee	BD 200
Placement Tests Fee (if applicable)	BD 40
Orientation Courses (if applicable)	BD 1,200
100 Level Courses - 12 courses (BD 300 Per Course)	BD 3,600
200 Level Courses- 11 courses (BD 330 Per Course)	BD 3,630
300 Level Courses - 11 courses (BD 360 Per Course)	BD 3,960
400 Level Courses- 11 courses (BD 390 Per Course)	BD 4,290
<b>TOTAL</b>	<b>BD 16,940</b>

## STUDY PLAN

### First Year

Year one consists of the University and College required courses and includes the following courses: Arabic, Academic English I, Introduction to Computers & IT, Calculus I, General Physics I, Academic English II, Modern History of Bahrain, Introduction to Computer Programmeming, Calculus II, General Physics II, Introduction to Statistics, Principles of Human Rights.

### Second Year

Year two consists of the remaining college requirement courses and includes the following courses: Electric Circuits, Differential Equations, Object-Oriented Programmeming I, Electronic Circuits, Digital Logic, Signals & Systems.

### Third Year

Year three includes the following courses: Computer Architecture and Organization, Communication Systems I, Digital Logic Design, Computer Networks, Microprocessors, Ethic and Professional Practice in IT and Engineering, Communication Systems II, Antenna and Wave propagation.

### Fourth Year

Year four focuses on the remaining major courses and consists of the following courses: Optical Communications, Internet of Things, Cyber Security, Cloud Services Development, Applied Robotics, Work-place Internship, Final Project.