

COMPUTER AND COMMUNICATION ENGINEERING

Degree Level: Undergraduate



Qualification type

Bachelor's Degree



Location

Main Campus



Study mode

Full Time



Duration

Four Years

KEY FACTS

Teaching Language

English

Accreditation



مجلس التعليم العالي
Higher Education Council

NQF*

NQF Placed (2018)
Reference Q17-034 Level 8

BQA**

Full Confidence (2016)

Study Abroad

Yes

Internship

Yes

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*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 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.

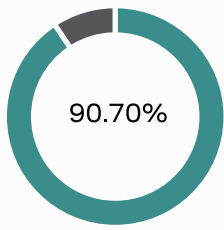
PROGRAMME AIMS

The aim of the programme is to enable graduates to:

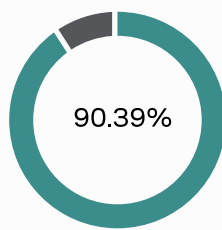
- Demonstrate a critical and detailed knowledge and understanding of the concepts and required theories of mathematics, science, and engineering essential for a specialization in computer and communication engineering.
- Identify, formulate, and solve quantitatively engineering problems germane to computer and communication engineering.
- Design and conduct engineering experiments using hardware/software. Design a computer/communication system or process to meet desired needs within realistic engineering constraints.
- Use effectively the techniques, skills, and modern engineering tools necessary for engineering practice. Gain facility in the use of hardware/software in conducting engineering experiments germane to computer and communication engineering.
- Apply innovative techniques in solving specific computer/communication engineering problems and demonstrate creativity to implement complex quantitative solutions.
- Work effectively as a member/leader of a project team on specialized topics, often involving experimentation, in computer and communication engineering, taking on significant responsibility for the work of others.

GENERAL STATISTICS

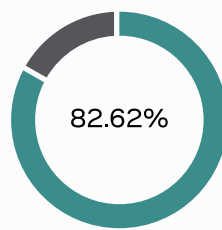
Employer Satisfaction



Student Internship Satisfaction



Graduate Satisfaction



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	Conditional Acceptance; Passing An Interview	Tracks Accepted
	70%	60%	Science, Technical & General

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
TOTAL	BD 16,840

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 Programming, 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, Digital Logic, MATLAB & Simulink, Object-Oriented Programming I, Academic English III, Data Networks, Data Structures and Algorithms, Signals & Systems, Object-Oriented Programming II, Calculus III, Academic English IV.

Third Year

Year three includes the following courses: Computer Architecture and Organization, Communication Systems I, Ethics and Professional Practice in IT & Engineering, Windows Server Network Infrastructure, Microprocessors, Principles of Control Systems.

Fourth Year

Year four focuses on the remaining major courses and consists of the following courses: Multimedia Communications Overview, Computer Security, Research Methods in IT and Engineering, Operating Systems, Digital Signal Processing, Network Design and Security, Wireless Communications, Distributed Systems, Work-place Internship, Final Project.



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