ENGINEERING ACCREDITATION COMMISSION

Summary of Accreditation Actions

2019–2020 Accreditation Cycle

Shaqra University
Dawadmi, Ar Riyadh, Saudi Arabia

Electrical Engineering (Bachelor)

Accredit to September 30, 2026. A request to ABET by January 31, 2025 will be required to initiate a reaccreditation evaluation visit. In preparation for the visit, a Self-Study Report must be submitted to ABET by July 1, 2025. The reaccreditation evaluation will be a comprehensive general review.

This is a newly accredited program. Please note that this accreditation action extends retroactively from October 1, 2018.

ABET

ENGINEERING ACCREDITATION COMMISSION

SHAQRA UNIVERSITY

DAWADMI, AR RIYADH, SAUDI ARABIA

FINAL STATEMENT OF ACCREDITATION

2019-20 ACCREDITATION CYCLE

SHAQRA UNIVERSITY

Dawadmi, Ar Riyadh, Saudi Arabia

ABET ENGINEERING ACCREDITATION COMMISSION

FINAL STATEMENT

VISIT DATES: FEBRUARY 2-4, 2020
ACCREDITATION CYCLE CRITERIA: 2019-2020

INTRODUCTION & DISCUSSION OF STATEMENT CONSTRUCT

The Engineering Accreditation Commission (EAC) of ABET has evaluated the Electrical Engineering (Bachelor) program at Shaqra University.

The statement that follows consists of two parts: the first addresses the institution and its overall educational unit, and the second addresses the individual programs.

A program's accreditation action is based upon the findings summarized in this statement. Actions depend on the program's range of compliance or non-compliance with the criteria. This range can be construed from the following terminology:

- **Deficiency** A deficiency indicates that a criterion, policy, or procedure is not satisfied. Therefore, the program is not in compliance with the criterion, policy, or procedure.

- **Weakness** A weakness indicates that a program lacks the strength of compliance with a criterion, policy, or procedure to ensure that the quality of the program will not be compromised. Therefore, remedial action is required to strengthen compliance with the criterion, policy, or procedure prior to the next review.

- **Concern** A concern indicates that a program currently satisfies a criterion, policy, or procedure; however, the potential exists for the situation to change such that the criterion, policy, or procedure may not be satisfied.

- **Observation** An observation is a comment or suggestion that does not relate directly to the current accreditation action but is offered to assist the institution in its continuing efforts to improve its programs.

INFORMATION RECEIVED AFTER THE REVIEW

- **Seven-Day Response** No information was received in the seven-day response period.

- **30-Day Due-Process Response** Information was received in the 30-day due-process response period relative to the Electrical Engineering program.

INSTITUTIONAL SUMMARY

Shaqra University is a state institution, operated under the Ministry of Higher Education of the Kingdom of Saudi Arabia, and comprised of 24 colleges located on multiple campuses in nine communities within the Riyadh province. The College of Engineering offers three engineering programs, one of which was evaluated for initial accreditation during this review. The college has 360 students, seven full-time tenured and tenure-track faculty members, and 25 full-time non-tenure-track faculty members. The college also has 12 faculty members on scholarship leave enrolled in doctoral programs at other universities. Faculty members are active in the scholarship of both teaching and research. The college had 66 graduates in the 2018-19 academic year.

The following units were reviewed and found to provide adequate support to the engineering program: mathematics, chemistry, English, faculty and staff affairs, student affairs and registration, college administration, finance and purchasing, technical support, and laboratory management.

Electrical Engineering

Bachelor Program

Evaluated under EAC Program Criteria for
Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs

INTRODUCTION

The Electrical Engineering (Bachelor) program, which is housed in the Department of Electrical Engineering, includes concentrations in communication systems and electrical power engineering. The program has 145 students, 15 full- time faculty members, and two faculty members on scholarship leave. The program produced 17 graduates in the 2018-19 academic year. This is the initial evaluation of the program by the Engineering Accreditation Commission.

PROGRAM STRENGTHS

1. Program laboratory equipment and facilities are extensive, cover a diverse range of electrical engineering subjects, and include several innovative laboratory experiences, designed by program faculty members with direct application to industrial practice. The amount of equipment, especially in relation to the number of students, is exceptional and facilitates a hands-on experiential education beyond that which is typically available in similar engineering programs. The result is an innovative educational experience that significantly enhances student preparation for professional practice.

2. The program's ABET Accreditation Committee consists of all members of the electrical engineering faculty and the accreditation process has been fully explained to all students. By fully involving and engaging both faculty members and students, assessment processes are more sustainable and there is a greater sense of program ownership.

PROGRAM WEAKNESS

Program Criteria

Program criteria for electrical engineering programs require the curriculum to include probability and statistics, including applications appropriate to the program name. The curriculum includes a required course STAT 324, Engineering Probability and Statistics, but there is no evidence that STAT 324 includes applications appropriate to electrical engineering. The course EE 422, Digital Communications, does include electrical engineering applications of probability and statistics; however, this course is only required in one of the program concentrations, and some students are therefore able to complete the curriculum without exposure to the applications of probability and statistics necessary for professional engineering practice. Thus, strength of compliance with this criterion is lacking.

30-Day Due-Process Response

The EAC acknowledges receipt of documentation, including lecture slides, textbook content, and student exams, that demonstrates appropriate applications of probability and statistics are now included within courses taken by all students in the program, as well as in required courses in each of the program's concentrations.

Status

The program weakness has been resolved.