



ENGINEERING ACCREDITATION COMMISSION

Summary of Accreditation Actions

2023–2024 Accreditation Cycle

Jordan University of Science and Technology
Irbid, Jordan

Network Engineering and Security (Bachelor of Science)

Accredit to September 30, 2027. A request to ABET by January 31, 2026 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, 2026. The reaccreditation evaluation will be a comprehensive general review.



ABET

ENGINEERING ACCREDITATION COMMISSION

**JORDAN UNIVERSITY OF SCIENCE
AND TECHNOLOGY**

IRBID, JORDAN

FINAL STATEMENT OF ACCREDITATION

2023-24 ACCREDITATION CYCLE

JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Irbid, Jordan

ABET ENGINEERING ACCREDITATION COMMISSION

FINAL STATEMENT

Report Submitted: 1 July 2023

ACCREDITATION CYCLE CRITERIA: 2021-2022

INTRODUCTION & DISCUSSION OF STATEMENT CONSTRUCT

The Engineering Accreditation Commission (EAC) of ABET has evaluated the Network Engineering and Security (Bachelor of Science) program at Jordan University of Science and Technology relative to the shortcomings remaining after the 2021-22 EAC review.

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

- **30- Day Due- Process Response** No information was received in the 30- day due- process response period.

INSTITUTIONAL SUMMARY

Jordan University of Science and Technology (JUST) is a national public university operated by the Ministry of Higher Education and Scientific Research. JUST was established in 1986 as an autonomous national institute of higher learning. At the time of the previous review, JUST was comprised of 12 faculties or schools, one institute, and 61 academic departments. Over 27,000 students were enrolled in 45 undergraduate and 100 graduate programs at the university. Almost 14 percent of the student body was drawn from 51 countries around the world.

The Faculty of Computer and Information Technology (CIT) offers degrees in Network Engineering and Security, Computer Science, Computer Information Systems, Computer Engineering, and Software Engineering. The Network Engineering and Security program was the only program evaluated during the current interim review. At the time of the previous review, CIT had 2,225 undergraduate and 221 graduate students, 76 full-time faculty members, 16 full-time lecturers, 34 full-time engineers, and 11 support staff members. During the 2020-21 academic year, CIT awarded 248 bachelor's degrees and 17 advanced degrees.

Network Engineering and Security

Bachelor of Science Program

There were no applicable EAC program criteria.

INTRODUCTION

The Network Engineering and Security (Bachelor of Science) program is offered by the Network Engineering and Security Department of the Faculty of Computer and Information Technology. The program was initiated in the 2009-10 academic year. At the time of the previous review, which was the initial evaluation of the program by the EAC, the department had 13 tenure-track faculty members, one full-time and one part-time instructor, and two full-time and four part-time staff members. The program had 759 students and produced 42 graduates in the 2020-21 academic year.

PROGRAM WEAKNESS

Criterion 4. Continuous Improvement

The previous review cited the program for not having an assessment and evaluation process that could clearly differentiate the level of achievement of individual student outcomes because data collected from individual course learning outcomes were mapped to multiple student outcomes. Further, the program did not assess all aspects of student outcomes (2) and (4). In its due-process response, the program stated that in the future a new mapping would be used in which each course learning outcome would be mapped to a single student learning outcome, that course learning outcomes would be restated to ensure that all aspects of student learning outcomes would be assessed, and that new exams would be added to two courses so that student outcomes (2) and (4) could be fully assessed. However, the program provided no detailed information on the revised mapping process which appeared to be ongoing and not fully implemented. Consequently, the process for using the new mapping and new course learning outcome data for student learning outcome assessment was unclear.

Progress Since Last Review

The interim report and appendices provided evidence that individual course learning outcomes are mapped to a single student learning outcome and that this new mapping was systematically used in fall 2022 and spring 2023 assessments. The program provided a detailed mapping for each course learning outcome. A course assessment document for each course used in the assessment showed the results and findings for each course learning outcome and defined the contribution of each to a corresponding student learning outcome. Meeting minutes from the Focus Groups and the Curriculum and Accreditation Committee showed the use of the assessments to evaluate the attainment of student learning outcomes. Further, the program provided exams and sample graded student work for NES441, Wireless Networks, and NES554, Computer Network Defense, which were used in the assessments for student learning outcomes (2) and (4), respectively, as well as detailed computations for both outcomes. All aspects of each of these student learning outcomes can be found in at least one of the individual course learning outcomes used in the assessment.

Status

The program weakness has been resolved.

PROGRAM CONCERN**Criterion 6. Faculty**

The previous review cited the program for not having a clear plan for increasing the number of faculty members to meet the needs associated with anticipated future growth in the number of students. The due-process response reported the current status of the hiring process for three new faculty members, but the approval process for extension of job offers to those candidates was not complete at that time.

Progress Since Last Review

The program did not provide a response to this shortcoming.

Status

The program concern is unresolved.