



Annual Assessment Report 2022-2023

BS Electromechanical Systems Engineering Electromechanical Engineering Technology College of Engineering

CONTACT

Name of Program Assessment Lead Farhana Abedin

Name of Person Completing Report Farhana Abedin

DISCIPLINARY ACCREDITATION Yes

DEVELOPMENT AND DOCUMENTATION OF STUDENT LEARNING OUTCOMES

How were the program's SLOs developed? (select all that apply)

- Our disciplinary accrediting agency has required learning outcomes, so we use them.

Other than the [CPP Catalog](#) and the [Office of Assessment and Program Review website](#), where else are your SLOs published? Select all that apply.

- Department Website - provide URL: <https://www.cpp.edu/engineering/et/emset/outcomes.shtml>

ASSESSMENT ACTIVITIES IN 2022-2023

This section provides the opportunity for programs to share and discuss assessment activities conducted in **AY 2022-2023**. This includes data collection, rubric development, data analysis, discussion of findings, development or implementation of closing the loop improvement strategies, update of your assessment plan and/or curriculum matrix, etc.

How many total SLOs does your program assess according to your assessment plan?

- 5

How many SLOs did your program assess this past year in 2022-2023?

- My program assessed SLOs in AY 2022-2023 (e.g., artifact collection, scoring, closing the loop, etc.). May also have engaged in assessment planning activities unrelated to specific SLOs (e.g., modified curriculum matrix, assessment plan, etc.).

Please list the SLOs examined

- SLO #1: an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.
- SLO #2: an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
- SLO #3: an ability to function effectively as a member as well as a leader on technical teams.

Student Learning Outcome (SLO): an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> Collected direct evidence (e.g., student work, exam items, etc.) Scored direct evidence of student learning Interpreted and made meaning of findings for direct evidence 	<ul style="list-style-type: none"> Assignment/exam/paper completed as part of regular coursework 	<ul style="list-style-type: none"> Used rubric or scoring guide
<ul style="list-style-type: none"> Discussed assessment results to make program decisions to improve SLO achievement (e.g., design new course, modify assignments, etc.) 		

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
10	Criterion 3: Applies modern tools to solve a problem	Yes	

Student Learning Outcome (SLO): an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> Collected direct evidence (e.g., student work, exam items, etc.) Scored direct evidence of student learning Interpreted and made meaning of findings for direct evidence 	<ul style="list-style-type: none"> Assignment/exam/paper completed as part of regular coursework 	<ul style="list-style-type: none"> Used rubric or scoring guide
<ul style="list-style-type: none"> Discussed assessment results to make program decisions to improve SLO achievement (e.g., design new course, modify assignments, etc.) 		

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
35	Criterion 1. Explain theory, procedure and standard testing methods used in the experiments. Criterion 2. Analyze and interpret results of experiments including, where applicable, comparison of results to theory, and error analysis Criterion 3. Ability to conduct standard tests, measurements and experiments	Yes	

Student Learning Outcome (SLO): an ability to function effectively as a member as well as a leader on technical teams.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
<ul style="list-style-type: none"> Collected direct evidence (e.g., student work, exam items, etc.) Scored direct evidence of student learning Interpreted and made meaning of findings for direct evidence 	<ul style="list-style-type: none"> Assignment/exam/paper completed as part of regular coursework 	<ul style="list-style-type: none"> Used rubric or scoring guide
<ul style="list-style-type: none"> Discussed assessment results to make program decisions to improve SLO achievement (e.g., design new course, modify assignments, etc.) 		

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
28	Criterion 1. Effective use of time. Criterion 2. Accountability and contribution	Yes	

IMPROVING THROUGH ASSESSMENT

Overall, what best describes how the program used the results in 2022-2023? Select all that apply.

- Assessment procedure changes (SLOs, curriculum matrix, rubrics, evidence collected, sampling, communications with faculty, etc.)
- Results indicated no action needed because students met expectations

Ideas to improve student learning can come from different constituents. With whom did the program discuss assessment planning and/or share results during AY 2021-2022? Select all that apply.

- Program/department faculty as whole
- College assessment committee
- College/divisional committee: _____

The past academic year posed both challenges and opportunities. Please share any assessment discoveries (e.g., insights about assessment procedures, great achievements, etc.) regarding program assessment in 2022-2023 so that others may learn from your experiences.

Assessment schedule was altered to make it systematic.

Please share how the program triangulates various data sources to determine student success. Consider assessment findings, [CPP's GI2025](#) markers, [CSU Dashboard](#), CPP's [Student Success Dashboard](#) on Tableau, course evaluations, etc.

<narrative here>

Does the program offer a certificate or credential (e.g., teaching credential)?

- No

The most current assessment plan and curriculum matrix we have on file for your program may be found [here](#). To ensure we have the most updated assessment plan and curriculum matrix for your program, and for posting on our website, please upload the following documents:

Assessment Plan - Yes

Curriculum Matrix - Yes