CAL POLY POMONA
ASSESSMENT & PROGRAM REVIEW

Annual Assessment Report 2023-2024

BS Electromechanical Systems Engineering Technology

Department of Electromechanical Engineering Technology

College of Engineering

CONTACT

Name of Program Assessment Lead Farhana Abedin & Jose Milan Higuera
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 2023-2024

This section provides the opportunity for programs to share and discuss assessment activities conducted in **AY 2023-2024.** 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 2023-2024?

- My program assessed SLOs in AY 2023-2024 (e.g., artifact collection, scoring, closing the loop, 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 apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
- 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
• Collected/Analyzed/Developed/Modified/Discussed assessment tools	• Assignment/exam/paper completed as part of regular coursework (Direct)	• Used rubric or scoring guide

Findings			
N of Artifacts	**Criterion Used**	**Goal Met**	**Eye-opening Result**
	We haven't analyzed it yet.	N/A	N/A

Student Learning Outcome (SLO): an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.

Assessment Activities	Evidence Used	Evaluation and Interpretation of Evidence
• Collected/Analyzed/Developed/Modified/Discussed assessment tools	• Oral performance (e.g., presentation, defense, conference presentation, etc.) (Direct)	• Used rubric or scoring guide

Findings			
N of Artifacts	Criterion Used	Goal Met	Eye-opening Result
	We haven't analyzed it yet.	N/A	N/A

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
• Collected/Analyzed/Developed/Modified/Discussed assessment tools	• Assignment/exam/paper completed as part of regular coursework (Direct)	• Used rubric or scoring guide

Findings			
N of Artifacts	**Criterion Used**	**Goal Met**	**Eye-opening Result**
34 for performance criteria 1&2 12 for performance criteria 3	70% of student sample was in exemplary and proficient level.	Yes	Some intervention is needed to improve student's accountability/contribution in group project and also in leadership area.

IMPROVING THROUGH ASSESSMENT

Overall, what best describes how the program used the results in 2023-2024? Select all that apply.

- Course-level changes (e.g., syllabus, content, pedagogy)
- 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 2023-2024? Select all that apply.

- Program/department faculty as whole
- College/divisional committee: The program assessment liaison will be presenting the data to the department for discussion on closing the loop.

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 2023-2024 so that others may learn from your experiences.

It is important to have an assignment which is compatible with the rubric being used for the assessment.

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, CPP's Graduating Senior Survey on Tableau, course evaluations, etc.

In addition to collecting direct assessment data, the department collects data on students' experience and jobs through exit survey. The department also collects data from alumni on student success.

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 - No

Curriculum Matrix - No

If you would like us to review other assessment documents such as your evidence (e.g., assignment, survey, interview questions etc.) or scoring rubric, please upload/provide them. (Select all that apply)

- Evidence
- Rubric