



# Annual Assessment Report for Academic Programs

The University Assessment Team advocates for the enhancement of student learning through purposeful, meaningful, and feasible student-outcomes assessment practices. The Assessment Team seeks to collaborate with programs, departments, and units to ensure that effective assessment of student learning occurs across the University. To assist in meeting this goal, the Team requests that you complete this Annual Assessment Report form to document student learning in your program. A PDF version of this completed form will be posted to the Academic Affairs Assessment website. Please note that this Annual Assessment Report form should only be completed after you have an Assessment Plan for Academic Programs forms on file with the University Assessment Team. The plan is completed once and only updated when revisions have been made to components of the plan.

**1. Degree Level and Program Name:** Master of Electrical and Computer Engineering

**2. College/School:** College of Engineering & Science

**3. Assessment Overview** - Briefly share how student learning outcomes assessment is conducted within your program/department (e.g. number of outcomes, examples of assignments used, and frequency of assessment).

The Master of Electrical and Computer Engineering (MSEE) program has three student learning outcomes, with two outcomes assessed each year. Faculty assess student learning outcomes using direct measures from embedded assignments (e.g. exams, quizzes, and projects using rubrics).

**4. Student Learning Outcomes** - Which student learning outcome(s) from the assessment plan filed with the University Assessment Team is/are being reported on in this report? Include the corresponding benchmark(s) for each outcome.

Outcome 2&3 are assessed for this academic year.

Student Learning Outcome #2: Identify, formulate, and solve complex electrical engineering problems - The benchmark for success is to have 75% or more of students achieve the outcome. For quantitative assessment methods, a score of 3.5/5 (i.e., 70%) or better is considered as having achieved the program outcome; For rubric-based assessment methods, students achieving a level of 3/4 (i.e., 75%) or better are considered to have performed satisfactorily. Projects 1 and 2 in Image processing and Computer Vision ELEE 5920 are used to assess outcome 2 with based on rubrics, while midterm and final exam of the same course were used as a quantitative direct measure.

Student Learning Outcome #3: use and integrate advanced techniques, skills, and modern engineering tools necessary for electrical engineering practice - The benchmark for success is to have 75% or more of students achieve the outcome. For quantitative assessment methods, a score of 3.5/5 (i.e., 70%) or better is considered as having achieved the program outcome; For rubric-based assessment methods, students achieving a level of 3/4 (i.e., 75%) or better are considered to have performed satisfactorily. The benchmark was based on completion rate of mini-project and final project in addition to the final course grade with is based on multiple coding assignment and exams.



**Institutional Outcomes** - For which institutional outcome(s) do the reported student learning outcome(s) align?

SLO Outcome Alignment	Institutional Outcome
	I. Jesuit & Mercy Values
	II. Diversity & Cultural Awareness
Yes	III. Critical Thinking & Problem Solving
	IV. Communication
	V. Professionalism
Yes	VI. Lifelong Learning

**6. Assessment Period:** Select the academic year for which you are reporting results (i.e. when data were collected):

2023-2024

**7. Results, Planned Actions, and/or Actions Taken** -Briefly summarize the assessment results, how they relate to benchmark(s), and how you are using them to enhance student learning and improve program quality.

All students were able to achieve outcome 2&3. Detailed worksheet on the assessment method and detailed results are attached to item 12

**Attachment(s):**

[ELEE 5920 T2 2023-24 MSEE Program Outcome 2 W Utayba Mohammad.pdf](#)

[MSEE Program Outcome 3 Worksheet ELEE5790 W24 Utayba Mohammad.pdf](#)