

Evaluation of Electrical Engineering Program Mission



I. Mission of Electrical Engineering Program:

The mission of the Electrical Engineering (EE) Program is to prepare electrical engineering graduates that compete in the labor market, sustain self-learning and professional development, and contribute to scientific research and community service.

Table 1. The Domains of The Mission of Electrical Engineering Program

Keywords from the developed program mission through which consistency is achieved	Teaching and Learning	Research and Innovation	Community Engagement
To prepare electrical engineering graduates that compete in the labor market, sustain self-learning and professional development, and contribute to scientific research	✓		
		✓	
and community service			✓

II. Objectives of Electrical Engineering Program:

Table 2. The Program Objectives of The Electrical Engineering Program

Code	Program Objectives (POs)
PO1	Serve competently in the professional career and academia by demonstrating high-quality knowledge and skills in the Electrical Engineering field.
PO2	Display self-learning, research, and critical thinking capability and take initiative in advancing their education and professional standing.
PO3	Function as a team member with the capability for leadership and effective communication.
PO4	Exhibit commitment to social responsibilities, ethical values, and meaningful community contributions.

Table 3. The Domains of The Objectives of The Program

Program Objectives	Domains of consistency with the objectives of the EE program		
	Teaching and learning	Research and innovation	Community engagement
PO1	✓		
PO2	✓	✓	
PO3	✓		
PO4			✓

III. Evaluation of Electrical Engineering Program Mission:

Table 4. Consistency of The Objectives of The Program with The Mission of The Program

		Program Mission		
		To prepare electrical engineering graduates that compete in the labor market, sustain self-learning and professional development,	and contribute to scientific research	and community service
Program Objectives	PO1	✓		
	PO2	✓	✓	
	PO3	✓		
	PO4			✓

We have a consistency matrix (Table 4) that aligns the EE Program's mission with its objectives (POs). We also have Key Performance Indicators (KPIs) associated with each PO. A weighted average formula can be used to evaluate the mission based on the performance of the KPIs associated with the POs. This formula will consider the relative importance of each PO and the performance of its KPIs.

Formula to evaluate EE Program Mission:

$$Eval(EEP - Mission) = \frac{KPI_{PO_1} + 2 \times (KPI_{PO_2}) + KPI_{PO_3} + KPI_{PO_4}}{5}$$

Where:

- $Eval(EEP - Mission)$: The overall evaluation of the mission.
- KPI_{PO_i} : The evaluation of the Program Objective (PO) i .



Signature of the EE-QAAC President and Members (31/08/2023)

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