PALAU
COMMUNITY
COLLEGE

"We Strive to Guarantee Quality and Excellence"

Palau Community College is an accessible comprehensive public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

T1 - Instructional Programs
(Academic Degree & Certificate Programs)

Three Year Program Review

Degree / Certificate Program

ELECTRICAL TECHNOLOGY (ET)

Period of Three-Year Review

FALL 2016 – SUMMER 2019

Program Review <u>Completed</u> By:

Name	Title	Signature	Date
DELISEO A. AGUSTIN	INSTRUCTOR		Jan-30-2020

Program Review <u>Certified</u> By:

Name	Title	Signature	Date
DETKOLA DURONG	Dean		1/30/2020

Program Review <u>Received</u> By: (Institutional Research & Evaluation Office)

Name	Title	Signature	Date
Ligaya Sara	Institutional Research Assistant		Jan-30-2020

Purpose:

Program review at Palau Community College is a process that provides an extensive evaluation of academic and non-academic programs on a three-year basis. The results of yearly assessments (using the FAMED process) are compiled into the one three-year review cycle.

The purpose of program review is to evaluate program sufficiency to allow definite strategies to be developed for major revisions, to provide information for consideration when decisions are made, and to develop recommendations to improve institutional effectiveness.

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Instructions for completing Program Review:

1. Type your text into the boxes. The text boxes will expand to accommodate the amount of text spaces you need.

2. Individual instructions are included before each section. Examples are in **green**, remove when you start writing.

3. Submit completed and signed Program Review in both hard copy and electronic copy format to the Institutional Research & Evaluation Office.

4. Required supporting documents must be included during submission.

   Appendix A: CLOs – PLOs – ILOs Mapping (e-copy only)

   Appendix B: Most Updated & Approved Outlines within this cycle (e-copy only)

   Appendix C: Most Updated Program Modification with PLOs within this cycle (e-copy only)

   Appendix D: FAMED grid of all course assessment data within review cycle
                 (e-copy only)

5. Be sure to keep both hard and electronic copies for your file.

Note: Other college plans may include the 15-Year Institutional Master Plan, the 5-Year Technology Plan, Institutional Learning Outcomes, Institutional-Set Standards for Student Achievement, or other plans, such as an approved department plan or committee plan.

I. Academic Degree Program Purpose (Program Description) and Relationship to the College Mission

1. State the purpose of this academic degree program below.

The Electrical Technology program is designed to provide students with technical knowledge, skills and proper work habits/attitudes necessary for employment in the field of electricity. The program prepares students to work, advance in their career position such as electrical installer, linemen, electrical maintenance, substation maintenance and electric motor repair.

The purpose of this academic degree program is to prepare the students to acquire competencies in different areas of Electrical Technology such as:
- Electrical installation for residential and commercial wirings.
- Electrical preventive maintenance,
- Service and repair of electric motor and motor starter.
- Installer and maintenance of solar panel and solar devices.

2. How is the academic degree program supporting the overall mission of the College?

PCC Mission Statement:
"Palau Community College is an accessible public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence."

The Electrical Technology program provides learning opportunities for the students to acquire technical expertise in the field of Electrical installation, maintenance, repair, and other services needed by the community. It provides training to develop student's employability skills leading to be prospective electrical technicians, linemen, power utility company maintenance.

3. Provide a brief history of this academic degree program below. Include the updates of major changes and accomplishments since the last review.

Under Micronesian Occupational Center, the Electronical Technology (ET) program was a two-year diploma program, consisting of six quarters. ET courses included labs which were 3 to 15 hours long. Although other programs had certificate program too, the ET program did not. By 1981, when the Center was now Micronesian Occupational College, the program offered a certificate of achievement (CA) and an associate of science degree (AS), still on a quarterly schedule
By 1985, the college had changed to a semesterly schedule, but still retained the CA and AS degree programs, 53 and 65 credits respectively. In four (4) semesters students could earn either a CA or am AS degree. There was no internship course for either program. In 1992, the course *On- the-Job Training* was first offered for five (5) credits with the name changing to *Internship* with a requirement of 9 credits.

In January 2005, with the approval of the Accrediting Commission of Community and Junior Colleges (ACCJC), the certificate program became an Associate of Applied Science degree program with the AS degree program being no longer offered. *Internship* is the cornerstone course and requires 4 credits.

To date the program has undergone several modifications to courses. To keep up-to-date, a solar energy course was added to the curriculum. The ET program requires 60 credits to complete it. Two Gainful Employment certificates are offered. Under RPPL9-22, the skilled labor Act, a Certificate of Completion in Residential Wiring is offered as well.

All modifications happened in this program since the beginning up to the present were made to ensures our students in the ET program received a relevant training and quality education that they need for their employment.

II.   Program Data

Degree Program Students – Number of Students Enrolled in this Degree Program

Figure 1. Number of Students Enrolled in Degree Program
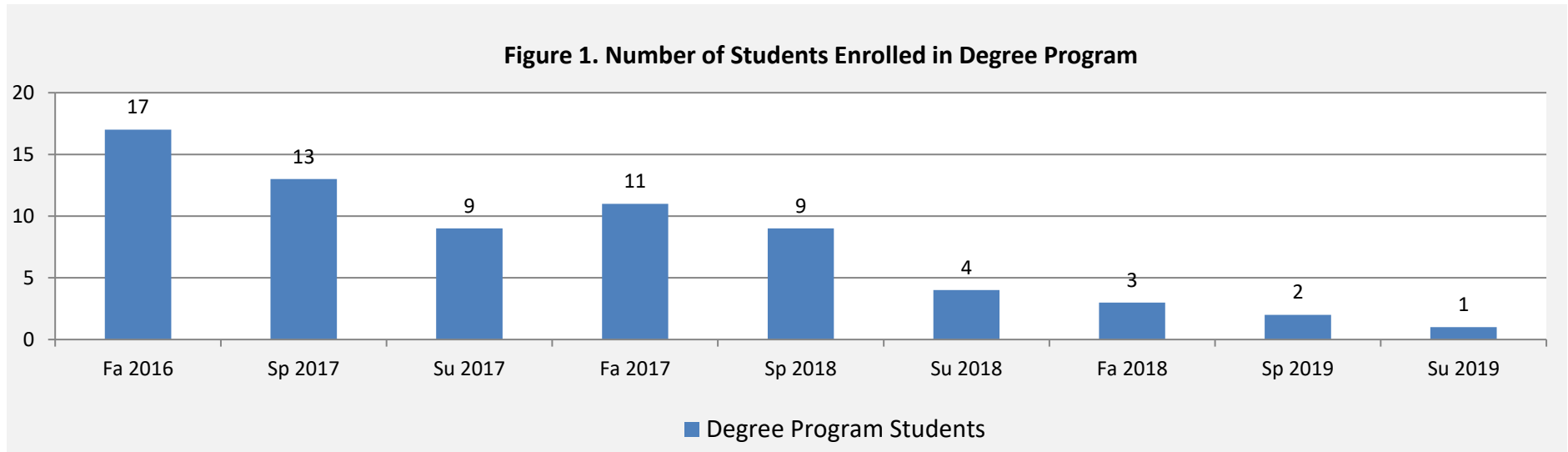
Provide summary of Figure 1 including its trends analysis.

The above figure (figure 1) show the number of students enrolled in all the ET program courses in every semester from fall 2016 to summer2019. The data shows that the program maintain an average of 7 ET students every semester with fall having the highest enrollees fallowed by the spring then summer. The program maintains an average of 10 students every fall semester and 8 every spring semester while summer is lower because mostly they only offered internship course during the said semester.

Fa 2016	Sp 2017	Su 2017	Fa 2017	Sp 2018	Su 2018	Fa 2018	Sp 2019	Su 2019	Semester Avg	FA Avg	SP Avg	SU Avg
17	13	9	11	9	4	3	2	1	7.6	10.3	8	4.6

Program Courses Data
(Course Completion Data of Program Students in each Program Course)

Table 1a. Course Completion of Program Courses (Fall)

FA 2016					FA 2017					FA 2018				
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
ET 103	6	0	1	7	ET 103	3	0	2	5	ET 103	1	0	0	1
ET 111	6	0	1	7	ET 111	3	0	0	3	ET 111	1	0	0	1
ET 210	7	0	1	8	ET 210	5	0	0	5					
ET 211	7	0	1	8	ET 211	5	0	0	5					
ET 214	7	0	1	8	ET 214	5	0	0	5					
					ET 222	1	0	0	1					

Table 1b. Course Completion of Program Courses (Spring)

SP 2017					SP 2018					SP 2019				
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
BP 116	5	0	0	5	BP 116	1	0	1	1	ET 221	1	0	0	1
ET 121	10	0	0	10	ET 121	4	0	0	4	ET 222	1	0	0	1
ET 122	10	0	0	10	ET 122	4	0	0	4					
ET 221	12	0	0	12	ET 221	10	0	0	10					
ET 222	1	0	0	1										

Table 1c. Course Completion of Program Courses (Summer)

SU 2017					SU 2018					SU 2019				
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
ET 222	4	0	0	4	ET 222	4	0	0	4	ET 222	1	0	0	1

Provide summary of Tables 1a, 1b & 1c including its trends analysis.

The table above shows the detailed course completion data of program student in each program courses in every semester from Fall 2016 to Summer 2019. Tables 1a to 1c shows the number of enrolled students who majors in ET program, many of them passed, some are withdraw and within this review cycle none of them failed.

Program Courses Data
Course Completion Data of ALL Students in each Program Course
(Does not apply for LA and SD Programs)

You may insert more rows as needed

Table 2a. Course Completion of Program Courses (Fall)

FA 2016				FA 2017				FA 2018			
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
ET 103	17	0	1	18	ET 103	14	2	5	21	ET 103	4	0	0	4
ET 110	8	1	1	10	ET 110	5	0	0	5	ET 110	8	0	0	8
ET 111	11	0	1	12	ET 111	6	0	0	6	ET 111	1	0	0	1
ET 210	7	0	1	8	ET 210	5	0	0	5					
ET 211	7	0	1	8	ET 211	5	0	0	5					
ET 214	7	0	1	8	ET 214	5	0	0	5					
					ET 222	1	0	0	1					

Table 2b. Course Completion of Program Courses (Spring)

SP 2017				SP 2018				SP 2019			
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
BP 116	5	0	0	5	BP 116	0	0	1	1	ET 221	1	0	0	1
ET 121	10	0	0	10	ET 121	0	0	4	4	ET 222	1	0	0	1
ET 122	10	0	0	10	ET 122	2	0	2	4					
ET 221	12	0	0	12	ET 221	10	0	0	10					
ET 222	1	0	0	1										

Table 2c. Course Completion of Program Courses (Summer)

SU 2017					SU 2018					SU 2019				
Course	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled	**Course**	Passed	Failed	Withdraw	Enrolled
ET 222	4	0	0	4	ET 222	4	0	0	4	ET 222	1	0	0	1

Provide summary of Tables 2a, 2b & 2c including its trends analysis.

The table above is similar to the previous table 1a to 1c but at this time the table above 2a to 2c shows the combined number of enrolled students who are ET majors, and non-ET majors who are taking only for credit. To summarize FA2016 to SU2019 semester, high percentage of the enrolled student passed, while some are failed, and the increase of withdraw students maybe the reason why is hard for them to take ET program courses or some personal reasons.
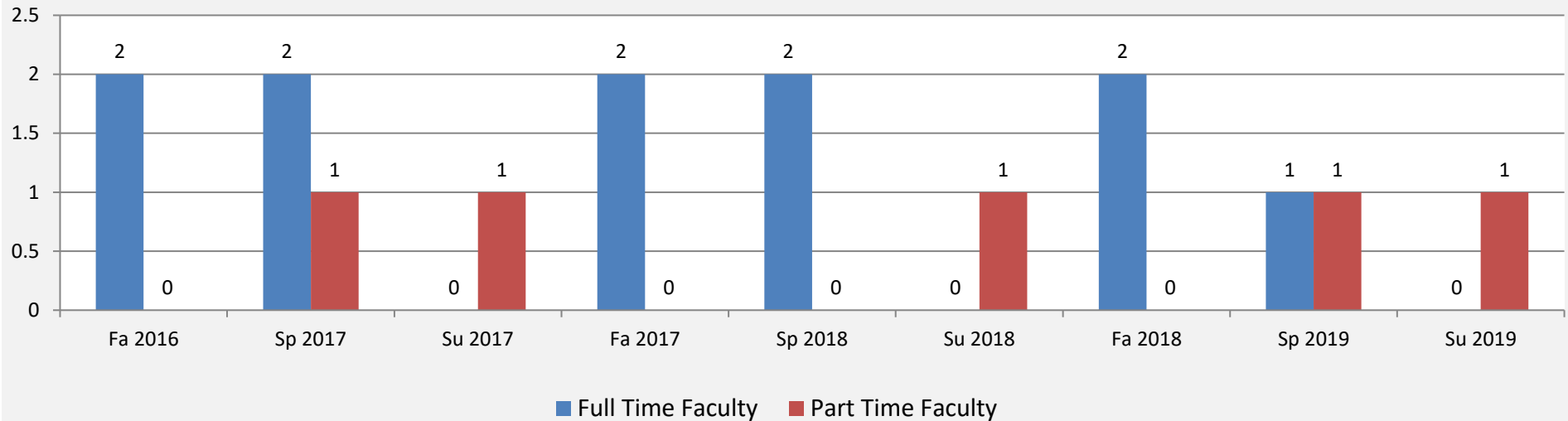
Figure 2. Number of Graduates

Term	AS/AA	AAS	CA
Fa 2016	0	0	0
Sp 2017	0	0	0
Su 2017	0	5	0
Fa 2017	0	1	0
Sp 2018	0	0	0
Su 2018	0	4	0
Fa 2018	0	0	0
Sp 2019	0	1	0
Su 2019	0	1	0

Legend: ■ AS/AA ■ AAS ■ CA
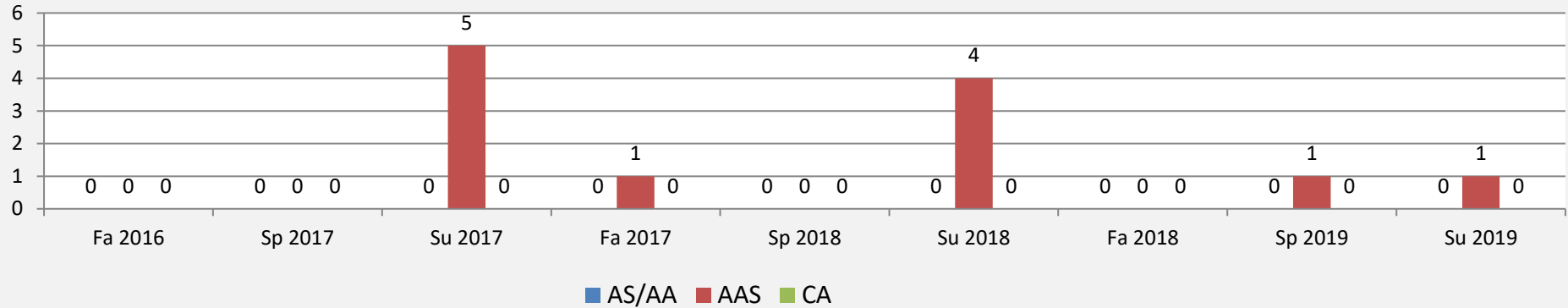
Provide summary of Figure 2 including its trends analysis.

The chart above (Figure 2) illustrates the number of students who have successfully completed and received an Associate of Applied Science degree in electrical technology. It is imperative to understand that the data under (II) (Figure 1) indicates the total enrollment in all ET courses. However, very few students completed the degree due to different reasons, mostly habitual tardiness and absenteeism.

Though the number of students who have graduated from the program is very low, the need to have the program not only locally and regionally but also worldwide is evident. As a result, it is strongly recommended that the College continue to support and encourage students to pursue an Associate of Applied Science degree in electrical technology. It is also recommended to enhance the college admission policy to ensure readiness of students admitted in the college and consider reoffering of preparatory courses to help those students improve their core competencies.

Figure 3. Faculty Head Count

Term	Full Time Faculty	Part Time Faculty
Fa 2016	2	0
Sp 2017	2	1
Su 2017	0	1
Fa 2017	2	0
Sp 2018	2	0
Su 2018	0	1
Fa 2018	2	0
Sp 2019	1	1
Su 2019	0	1

Provide summary of Figure 3 including its trends analysis.

The chart above (Figure 3) represents the number of full time and part time faculty that teaches ET classes. Currently, there are two full time ET faculty who teach all ET courses except Internship which is handled by a part time faculty.

III. Student Learning and Curriculum

School Year	How many program courses are there? (refer to catalog or recent approval by CPC)	% of courses with Identified CLOs	List all revised program courses outlines or proposed new courses that received CPC approval within this review cycle	% of PLOs aligned with ILOs
2016-2017	11	100%	0	100%
2017-2018	11	100%	0	100%
2018-2019	11	100%	0	100%

Provide Summary of Student Learning and Curriculum in the box below. Summary should include reasons for course revisions and course proposals. If any course and/or the degree or the certificate program went through the validity process, include the information here.

All 11 courses offered in the ET program are approved by the CPC with 100% identified CLOs and 100% aligned with PLOs. All program courses are newly updated with validity of 5 years from the date it was approved and implemented. No revision happened nor new courses were proposed from year 2016 to 2019.

IV. Course Assessment Data

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments (Do not combine CLO results; report individual CLO result.)
Summer 2016	ED290	CLO 1–PLO 1-ILOs 1,2,4,5 CLO 2–PLO 2-ILOs 1,2,4,5 CLO 3–PLO 3-ILOs 1 to 6 CLO 4–PLO 4-ILOs 1 to 6 CLO 5–PLO 5-ILOs 1,2,4,5	CLO 1: 100% of students assessed performed at the proficiency level. CLO 2: 100% of students assessed performed at the proficiency level. CLO 3: 100% of students assessed performed at the proficiency level. CLO 4: 100% of students assessed performed at the proficiency level. CLO 5: 100% of students assessed performed at the proficiency level.

Year 1: School Year FALL 2016 – SUMMER 2017

Semesters Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments

FALL 2016	ET 103	CLO 1-6 – PLO 1-3 – ILO 1-6	CLO 1 – 86% of the students assessed performed at the proficiency level. CLO 2 – 86% of the students assessed performed at the proficiency level. CLO 3 – 71% of the students assessed performed at the proficiency level. CLO 4 –75% of the students assessed performed at the proficiency level. CLO 5 – 73% of the students assessed performed at the proficiency level. CLO 6 – 75% of the students assessed performed at the proficiency level.
	ET 110	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 111	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 210	CLO 1-5 – PLO 1&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.

	ET 211	CLO 1-6 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level. CLO 6 - 100% of the students assessed performed at the proficiency level.
	ET 214	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
SPRING 2017	BP116	CLO 1 – PL0 1-3 – ILO 2&6 CLO 2 – PLO 1-2 – ILO 3 CLO 3 – PLO 1&3 – ILO 3 CLO 4 – PLO 1-2 – ILO 3 CLO 5 – PLO 1-3 ILO 1,4&6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 121	CLO 1-5 – PLO 1&3 – ILO 3	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level.

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
			CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 122	CLO 1-4 – PLO 2 – ILO 3 CLO 5 – PLO 2 – ILO 1,3,4,5,6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 221	CLO 1 – PLO 1-3 – ILO 2-6 CLO 2 – PLO 1-3 – ILO 1&3 CLO 3 – PLO 1-3 – ILO 2-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level.
SUMMER 2017	ET 222	CLO 1 – PLO 1-3 – ILO 2-6 CLO 2 – PLO 1-3 – ILO 1&3	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level.

Year 2: School Year FALL 2017 – SUMMER 2018

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
FALL 2017	ET 103	CLO 1-6 – PLO 1-3 – ILO 1-6	CLO 1 – 73.33% of the students assessed performed at the proficiency level. CLO 2 – 76.92% of the students assessed performed at the proficiency level. CLO 3 – 25% of the students assessed performed at the proficiency level. CLO 4 – 72.73% of the students assessed performed at the proficiency level. CLO 5 – 75% of the students assessed performed at the proficiency level. CLO 6 – 80% of the students assessed performed at the proficiency level.

	ET 110	CLO 1-5 – PLO 2&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 111	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 210	CLO 1-5 – PLO 1&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 211	CLO 1-6 – PLO 1&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level. CLO 6 - 100% of the students assessed performed at the proficiency level.

	ET 214	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 222	CLO 1-2 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level.
SPRING 2018	ET 122	CLO 1-4 – PLO 2 – ILO 3 CLO 5 – PLO 2 – ILO 1,3,4,5,6	CLO 1 - 0% of the students assessed performed at the proficiency level. CLO 2 - 0% of the students assessed performed at the proficiency level. CLO 3 - 0% of the students assessed performed at the proficiency level. CLO 4 - 0% of the students assessed performed at the proficiency level. CLO 5 - 0% of the students assessed performed at the proficiency level.
	ET 221	CLO 1 – PLO 1-3 – ILO 2-6 CLO 2 – PLO 1-3 – ILO 1&3 CLO 3 – PLO 1-3 – ILO 2-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level.
SUMMER 2018	ET 222	CLO 1-2 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 75% of the students assessed performed at the proficiency level.

Year 3: School Year FALL 2018 – SUMMER 2019

Semester Assessed	Course Assessed	CLO-PLO-ILO Mapping	Results of Assessments
FALL 2018	ET 103	CLO 1-6 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level. CLO 6 - 100% of the students assessed performed at the proficiency level.
	ET 110-1	CLO 1-5 – PLO 2&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 110-2	CLO 1-5 – PLO 2&3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 111	CLO 1,3,4,5 – PLO 1-3 – ILO 1-6 CLO 2 – PLO 1-3 – ILO 2-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level.

			CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
SPRING 2019	ET 221	CLO 1-5 – PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level. CLO 3 - 100% of the students assessed performed at the proficiency level. CLO 4 - 100% of the students assessed performed at the proficiency level. CLO 5 - 100% of the students assessed performed at the proficiency level.
	ET 222	CLO 1-2– PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level.
SUMMER 2019	ET 222	CLO 1-2– PLO 1-3 – ILO 1-6	CLO 1 - 100% of the students assessed performed at the proficiency level. CLO 2 - 100% of the students assessed performed at the proficiency level.

Provide Summary of Course Assessment Data with analysis results in the box below. Summary should include how assessment results have led to improvement of course and program learning outcomes, student learning and student achievement.

All courses in ET program are assessed every semester measuring the proficiency level of every student, which came up with positive result in every program during this cycle, the decreasing of proficiency level of Clo's in some program could be the result of student habitual tardiness and absenteeism. When student's proficiency level is below 70%, then action plan is stablished and implement on the following year to improve the training course, teaching methodology, delivery that will lead to increase in student's proficiency level. The assessment of different courses on the above table shows their alignment to PLO and ILO and their level of success. Most of data on the above table from fall 2016 to Summer 2019 shows that all students in this review cycle met the expected proficiency level of 70%, therefore no further action needed at this time. The ET program will continuously assess and monitor each course to ensure success in student career.

V. Program Learning Outcomes (PLOs) Assessment

Program Learning Outcomes Assessment Results

Year Assessed	PLO Assessed	Proficiency Levels	Results of Assessments
S. Y. 2016-2017	PLO 1	ET103 –CLO 1 –86%	97.14% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 –CLO 2 –86%	
		ET103 –CLO 3 –71%	
		ET103 –CLO 4 –75%	
		ET103 –CLO 5 –73%	
		ET103 –CLO 6 –75%	
		ET110 –CLO 1 -100%	
		ET110 –CLO 2 -100%	
		ET110 –CLO 3 -100%	
		ET110 –CLO 4 -100%	
		ET110 –CLO 5 -100%	
		ET111 –CLO 1 -100%	
		ET111 –CLO 2 -100%	
		ET111 –CLO 3 -100%	
		ET111 –CLO 4 -100%	
		ET111 –CLO 5 -100%	
		ET210 –CLO 1 -100%	
		ET210 –CLO 2 -100%	
		ET210 –CLO 3 -100%	
		ET210 –CLO 4 -100%	
		ET210 –CLO 5 -100%	
		ET211 –CLO 1 -100%	
		ET211 –CLO 2 -100%	
		ET211 –CLO 3 -100%	
		ET211 –CLO 4 -100%	
		ET211 –CLO 5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		BP116 –CLO1 -100%	
		BP116 –CLO2 -100%	
		BP116 –CLO3 -100%	
		BP116 –CLO4 -100%	
		BP116 –CLO5 -100%	
		ET121 -CLO1 – 100%	
		ET121 -CLO2 – 100%	
		ET121 -CLO3 – 100%	
		ET121 -CLO4 – 100%	
		ET121 -CLO5 – 100%	
		ET121 -CLO6 – 100%	
		ET221 -CLO1 – 100%	
		ET221 -CLO2 – 100%	
		ET221 -CLO3 – 100%	

		ET222 -CLO1 – 100%	
		ET222 -CLO2 – 100%	
	PLO 2	ET103 –CLO 1 –86%	96.65% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 –CLO 2 –86%	
		ET103 –CLO 3 –71%	
		ET103 –CLO 4 –75%	
		ET103 –CLO 5 –73%	
		ET103 –CLO 6 –75%	
		ET110 –CLO 1 -100%	
		ET110 –CLO 2 -100%	
		ET110 –CLO 3 -100%	
		ET110 –CLO 4 -100%	
		ET110 –CLO 5 -100%	
		ET111 –CLO 1 -100%	
		ET111 –CLO 2 -100%	
		ET111 –CLO 3 -100%	
		ET111 –CLO 4 -100%	
		ET111 –CLO 5 -100%	
		ET211 –CLO 1 -100%	
		ET211 –CLO 2 -100%	
		ET211 –CLO 3 -100%	
		ET211 –CLO 4 -100%	
		ET211 –CLO 5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		BP116 –CLO1 -100%	
		BP116 –CLO2 -100%	
		BP116 –CLO4 -100%	
		BP116 –CLO5 -100%	
		ET122 -CLO1 -100%	
		ET122 -CLO2 -100%	
		ET122 -CLO3 -100%	
		ET122 -CLO4 -100%	
		ET122 -CLO5 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
	PLO 3	ET103 –CLO 1 –86%	97.02% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 –CLO 2 –86%	
		ET103 –CLO 3 –71%	
		ET103 –CLO 4 –75%	
		ET103 –CLO 5 –73%	
		ET103 –CLO 6 –75%	
		ET110 –CLO 1 -100%	
		ET110 –CLO 2 -100%	

		ET110 –CLO 3 -100%	
		ET110 –CLO 4 -100%	
		ET110 –CLO 5 -100%	
		ET111 –CLO 1 -100%	
		ET111 –CLO 2 -100%	
		ET111 –CLO 3 -100%	
		ET111 –CLO 4 -100%	
		ET111 –CLO 5 -100%	
		ET210 –CLO 1 -100%	
		ET210 –CLO 2 -100%	
		ET210 –CLO 3 -100%	
		ET210 –CLO 4 -100%	
		ET210 –CLO 5 -100%	
		ET211 –CLO 1 -100%	
		ET211 –CLO 2 -100%	
		ET211 –CLO 3 -100%	
		ET211 –CLO 4 -100%	
		ET211 –CLO 5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		BP116 - CLO1 -100%	
		BP116 –CLO3 -100%	
		BP116 –CLO5 -100%	
		ET121 – CLO1 -100%	
		ET121 – CLO2 -100%	
		ET121 – CLO3 -100%	
		ET121 – CLO4 -100%	
		ET121 – CLO5 -100%	
		ET121 – CLO6 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
S. Y. 2017-2018	PLO 1	ET103 -CL01 -73.33%	93.2% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 -CL02 -76.92%	
		ET103 -CL03 -25%	
		ET103 -CL04 -72.73%	
		ET103 -CL05 -75%	
		ET103 -CL06 -80%	
		ET111 -CLO1 -100%	
		ET111 -CLO2 -100%	
		ET111 -CLO3 -100%	
		ET111 -CLO4 -100%	
		ET111 -CLO5 -100%	
		ET210 –CLO 1 -100%	
		ET210 –CLO 2 -100%	

		ET210 –CLO 3 -100%	
		ET210 –CLO 4 -100%	
		ET210 –CLO 5 -100%	
		ET211 –CLO 1 -100%	
		ET211 –CLO 2 -100%	
		ET211 –CLO 3 -100%	
		ET211 –CLO 4 -100%	
		ET211 –CLO 5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -75%	
	PLO 2	ET103 -CL01 -73.33%	78.12% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 -CL02 -76.92%	
		ET103 -CL03 -25%	
		ET103 -CL04 -72.73%	
		ET103 -CL05 -75%	
		ET103 -CL06 -80%	
		ET110 – CLO1 -100%	
		ET110 – CLO2 -100%	
		ET110 – CLO3 -100%	
		ET110 – CLO4 -100%	
		ET110 – CLO5 -100%	
		ET111 – CLO1 -100%	
		ET111 – CLO2 -100%	
		ET111 – CLO3 -100%	
		ET111 – CLO4 -100%	
		ET111 – CLO5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET122 -CLO1 – 0%	
		ET122 -CLO2 – 0%	
		ET122 -CLO3 – 0%	
		ET122 -CLO4 – 0%	
		ET122 -CLO5 – 0%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	

		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -75%	
	PLO 3	ET103 -CL01 -73.33%	94.1% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 -CL02 -76.92%	
		ET103 -CL03 -25%	
		ET103 -CL04 -72.73%	
		ET103 -CL05 -75%	
		ET103 -CL05 -80%	
		ET110 – CLO1 -100%	
		ET110 – CLO2 -100%	
		ET110 – CLO3 -100%	
		ET110 – CLO4 -100%	
		ET110 – CLO5 -100%	
		ET111 – CLO1 -100%	
		ET111 – CLO2 -100%	
		ET111 – CLO3 -100%	
		ET111 – CLO4 -100%	
		ET111 – CLO5 -100%	
		ET210 –CLO 1 -100%	
		ET210 –CLO 2 -100%	
		ET210 –CLO 3 -100%	
		ET210 –CLO 4 -100%	
		ET210 –CLO 5 -100%	
		ET211 –CLO 1 -100%	
		ET211 –CLO 2 -100%	
		ET211 –CLO 3 -100%	
		ET211 –CLO 4 -100%	
		ET211 –CLO 5 -100%	
		ET214 –CLO 1 -100%	
		ET214 –CLO 2 -100%	
		ET214 –CLO 3 -100%	
		ET214 –CLO 4 -100%	
		ET214 –CLO 5 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -75%	
S. Y. 2018-2019	PLO 1	ET103 -CL01 -100%	100% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 -CL02 -100%	
		ET103 -CL03 -100%	
		ET103 -CL04 -100%	
		ET103 -CL05 -100%	
		ET103 -CL06 -100%	
		ET111 -CLO1 -100%	
		ET111 -CLO2 -100%	
		ET111 -CLO3 -100%	

		ET111 -CLO4 -100%	
		ET111 -CLO5 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
	PLO2	ET103 -CL01 -100%	
		ET103 -CL02 -100%	
		ET103 -CL03 -100%	
		ET103 -CL04 -100%	
		ET103 -CL05 -100%	
		ET103 -CL06 -100%	
		ET110-1 – CLO1 - 100%	
		ET110-1 – CLO2 - 100%	
		ET110-1 – CLO3 - 100%	
		ET110-1 – CLO4 - 100%	
		ET110-1 – CLO5 - 100%	
		ET110-2 – CLO1 - 100%	
		ET110-2 – CLO2 - 100%	
		ET110-2 – CLO3 - 100%	
		ET110-2 – CLO4 - 100%	
		ET110-2 – CLO5 - 100%	
		ET111 – CLO1 -100%	
		ET111 – CLO2 -100%	
		ET111 – CLO3 -100%	
		ET111 – CLO4 -100%	
		ET111 – CLO5 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
	PLO 3	ET103 -CL01 -100%	100% of students assessed performed at the proficiency level. The expected outcome of 70% was met. ET program will continue to offer program courses as they are, continue to assess the program courses, and will
		ET103 -CL02 -100%	
		ET103 -CL03 -100%	
		ET103 -CL04 -100%	

		ET103 -CL05 -100%	make any changes when need arise. Changes and implementation will continue to be based on course assessment results and data.
		ET103 -CL06 -100%	
		ET110-1 – CLO1 - 100%	
		ET110-1 – CLO2 - 100%	
		ET110-1 – CLO3 - 100%	
		ET110-1 – CLO4 - 100%	
		ET110-1 – CLO5 - 100%	
		ET110-2 – CLO1 - 100%	
		ET110-2 – CLO2 - 100%	
		ET110-2 – CLO3 - 100%	
		ET110-2 – CLO4 - 100%	
		ET110-2 – CLO5 - 100%	
		ET111 – CLO1 -100%	
		ET111 – CLO2 -100%	
		ET111 – CLO3 -100%	
		ET111 – CLO4 -100%	
		ET111 – CLO5 -100%	
		ET221 -CLO1 -100%	
		ET221 -CLO2 -100%	
		ET221 -CLO3 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	
		ET222 -CLO1 -100%	
		ET222 -CLO2 -100%	

Provide Summary of Program Learning Outcomes Assessments and analysis results in the box below. Summary should include analysis of this cycle with previous cycles; how assessment results have led to major decisions made to support the improvement of program's student learning and student achievement.

Comparing the proficiency level of the three PLOs from previous program review FA2013 to SU2016 to the proficiency level of this review cycle FA2016 to SU2019 there is significantly increase in the proficiency level. PLO1 increased by 12.78% from 84% to 96.78% proficiency level, PLO2 increased by 6.59% from 85% to 91.59% proficiency level, PLO3 increased by 12.04% from 85% to 97.04% proficiency level. The table below shows the summary of this review cycle and its comparison to the previous cycle.

Table of Comparison

PLO'S	FA2013-SU2016 PROFICIENCY LEVEL (PREVIOUS REVIEW CYCLE)	FA2016-SU2019 PROFICIENCY LEVEL (THIS REVIEW CYCLE)	INCREASED BY
PLO 1	84%	96.78%	12.78%
PLO 2	85%	91.59%	6.59%
PLO 3	85%	97.04%	12.04%

Summary of PLOs Assessment for this Review Cycle

YEAR	PLO 1	PLO 2	PLO 3
2016-2017	97.14%	96.65%	97.02%
2017-2018	93.2%	78.12%	94.10%
2018-2019	100%	100%	100%
AVG	96.78%	91.59%	97.04%

It was indicated in this program review that the proficiency level of all student in each PLO met the 70% expected outcome. Therefore, no further actions needed at this time. The ET program will continue to offer program courses as they are, continue to asses all the program courses, and will stablish actions if needed for the improvement of all courses.

VI. Evaluation of Previous Program Review Action Plan(s)

Indicate the status of the previous program review action plans below. (Include all previous action plans.) Indicate the cycle and years of the previous program review.

Cycle: 4Th	Years: FA2013-SU2016

Action Plan Activity/Objectives	Status Complete/Ongoing/Incomplete	Updates of Action Plan/s (Report action plan individually.)
Collaborate with PNCC to put up one telephone with intercom system set up to compliment one CLO in ET 211 course.	Ongoing	PCC still working and collaborating to PNCC for the installation of telephone and intercom system at the school campus.
Professional development	Ongoing	PCC are continuously sending faculty or instructor for their respective training if there is available. To enhance their professional career and to developed their skill.
Construct Training facilities intended for renewable energy trainings for students.	Incomplete	Still looking and planning which part is available and suitable to install solar devices.
Obtain visual and audio teaching aids on electrical safety and maintenance	Complete	Faculty members can use projector to obtain visual and audio teaching aids on electrical safety and maintenance.
Obtain "estimating software" for ET 221 Electrical Estimating.	ongoing	Still looking for estimating software to be purchase.
Train faculty in the use of technology as a support media to enhance lectures and content of the course.	Ongoing	Every semester faculty member conducted training to develop and enhance their ability to use technology as a support to their teaching methodology.
Obtain transformer rewinding machine and coil former to enhance the delivery and student success in ET 121 Electric Machine	Complete	Rewinding machine already available at ET lab and students are now making their rewinding lab.
Improve the delivery strategies for ET 111 Basic electricity by procuring some demonstration kits available online.	Ongoing	Every semester PCC provides lecture materials and demonstrating kits for every instructor, and keep working on how to improve the delivery of materials and demonstrating kit ordered online that just to be on time.

Provide Summary of the Evaluation of Previous Program Review Action Plans and analysis results in the box below. Summary should include what measurable outcomes were achieved due to the actions completed; were the completed action plans led to improvement of student learning and student achievement; provide a detailed explanation of action plans that are ongoing and plans that are incomplete.

Five of the previous action planed is still ongoing.
For ET 211 PCC still working and collaborating to PNCC for the installation of telephone and intercom system to compliment the CLO's of ET students.
Professional development of faculty is still ongoing, sending training and seminars for faculty are not only to enhance their professional career and develop skill, but it will also boost the morale of the faculty and revitalized his/her visions/missions to actively improve the program.

Train faculty in the use of technology as a support media to enhance lectures and content of the course is still ongoing. Every semester faculty member conducted training to develop and enhance their ability to use technology as a support to their teaching methodology.
And the last one is for ET 111. Every semester PCC provides lecture materials and demonstrating kits for every instructor, and keep working on how to improve the delivery of materials and demonstrating kits ordered online that just to be on time.

Two of the action planed are already complete, one is for ET 121 for Electric Motor, rewinding machine already available at ET lab and students are now making their rewinding work at ET lab. And the second one, Faculty members can use projector to obtain visual and audio teaching aids on electrical safety and maintenance.

And some of the previous action planed is incomplete like the constructing of training facilities intended for renewable energy, PCC administration still assessing and planning where to install solar equipment for student program training purposes.

VII. Action Plans

Based on this program review results, describe the program action plan for the next three (3) academic years. Include necessary resources.

Action Plan Activity/Objectives	How will this action plan improve student learning outcomes? (CLO, PLO, ILO)	Needed Resources (if any)	Timeline
Professional development	This plan ensures that ET faculty is always up to date in electrical technology for delivering information and instructions to the student.	Funding to allow ET faculty attend trainings, workshops, and conferences in ET related topics.	Ongoing
Provide safety training for Faculty staff.	This is to ensure safety to students and faculty in their laboratory work, specially electrical work.	Funding to allow ET faculty to attend safety trainings.	2016 onwards
Purchase of Personal student Tools and material	This ensures that necessary tools and materials are available for students and faculty teaching ET courses.	Funding	2016 onwards

Purchase of addition training equipment and tools	To equalize the ratio of shop equipment per student in order to increase learning efficiency and instructions.	Funding to buy additional training equipment and tools for the ET shop	Ongoing
Construction of new shop rooms, shelves and student cabinet	This plan is to provide student conducive learning environment and safety.	Funding needed to construct new shop rooms, shelves, and student cabinet.	2019
Construct Training facilities intended for renewable energy trainings for students.	This plan ensures student learning by providing them real life experience through installing solar panels on different roofing materials.	Funding supplies and materials needed for solar devices, constructing roof and manpower.	2019
Modified and update ET Program courses.	This plan ensures that ET program courses is modified and updated.	None	2020

Provide Summary of <u>Action Plans</u> in the box below. Summary should include program major strengths; program needs and any recommendations for improvements based on assessment results, data and/or other college major plans. The summary needs to indicate overall program needs that may require financial support from the institution.

The first major strength of ET program is the professional development, this plan ensures that ET faculty is always up to date in electrical technology for delivering quality education and training to the student. Working in electricity SAFETY is the priority, administration should support safety training to faculty, this is to ensure safety to students and faculty during their laboratory work.

The second major strength of the program is to support and provide all needed materials and equipment that aligned to their program courses to be used for their laboratory work, where they can practice, enhance their skill and developed them as well. Construct training facilities where they can work in actual and apply what they learned in the program.

VIII. Resource Requests
Itemize resource request below.

Type of Resource	Detailed Description	Estimated Amount Requested	Justification
Personnel	Personnel	Not at this time	
Facilities	Classroom and lab.development Roofing for Solar training	$1000.00 $10,000.00	• To give convenient and good ambiance to the student. • This is to give student an opportunity to train and experience in installation and

			designing solar power for their ET 214
Equipment	Set of automotive ranges	$1000.00	• For ET 121 Electric Machine to make sure student has the proper tool to be used during their laboratory.
Supplies	Office supply Shop materials	$500.00 per year $1000.00	• This is to support Faculty for their teaching materials. • This is to ensure and provides needed materials to support students to their laboratory work.
Software	Simulation Software - The Constructor 13 Electrical Estimating Software	$1500.00 $3000.00	• This simulation software can used by the student for their ET210 Motor control and Sequential control to interpret and designed. • For ET221 Electrical estimating, this software can be use by the student in electrical and labor unit estimating.
Training	Safety training Professional development training	$1500.00 $2500.00	• To ensure and provides safety for student and faculty during their laboratory work. To have practice and knowledge in first aid practices. • To ensure faculty up to date for latest electrical technology to enhance their skill and knowledge for the development of the program and their teaching career.
Other	None at this time		
Total		$22000.00	

Provide Summary of Resource Request in the box below. Summary should connect the resources requested to course, program and institutional learning outcomes assessment results and/or any other college major plans.

The construction of solar training facility is to give actual experience for the student, where they can practice and apply what ever they learned in ET 214 that aligned to their CLO's. Classroom and laboratory development to give convenient, good ambiance and safety for the student during their classes and laboratory work.
The simulation software can used by the student for their ET 210 Motor control and Sequential Control, The primary advantages of simulators is that they are able to provide users with practical feedback when designing real world systems. This allows the designer to determine the correctness and efficiency of a

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design before the system is actually constructed. Students will be able to explore the merits of alternative designs without actually physically building the systems. After designing circuit through the simulation software, the students will construct the motor control circuit using motor control components.

Office supply and shop materials supply is to help and support faculty for their teaching materials and provide students needed materials during their laboratory work. Safety training is to ensure faculty has the practice and knowledge in safety and first aid response, because working in electricity is one of the most fatal and dangerous work. Safeguarding our student during their laboratory work is one of our priority.

Do not forget to include all your required evidence. Required evidence is listed on page 2 of this template.