**Continuous Improvement Plan**

**Outcomes might not change from year to year. For example, if you have not met previous targets, you may wish to retain the same outcomes. *If this is an academic, workforce, or continuing education program, you must have at least one student learning outcome.* You may also add short-term administrative, technological, assessment, resource or professional development goals, as needed.**

**Date:** 1-09-2023 **Name of Program/Unit: Robotics and Automation Technology (**formerlyIndustrial Automation)

**Contact name:** Tripat Baweja **Contact email:** tbaweja@collin.edu **Contact phone:**  972.553.1183

**Table 1: CIP Outcomes, Measures & Targets Table (focus on at least one for the next two years)**

|  |  |  |
| --- | --- | --- |
| **A. Expected Outcome(s)**  Results expected in this unit  (e.g. Authorization requests will be completed more quickly; Increase client satisfaction with our services) | **B. Measure(s)**  Instrument(s)/process(es) used to measure results  (e.g. survey results, exam questions, etc.) | **C. Target(s)**  Level of success expected  (e.g. 80% approval rating, 10 day faster request turn-around time, etc.) |
| Increased enrollment in the Industrial Automation program | * Host information sessions for CTE students of major local ISDs * Create social media presence * Work with Collin Corporate College to promote the Industrial Automation program to local manufacturing companies | Initial enrollment of 10 students |
| Coursework development completed for all Industrial Automation classes | Develop syllabi / course content for ELMT 1301, ELMT 2339, and INTC 2359 | 100% Completion of course development |
| Students will be able to demonstrate troubleshooting skills in electronics to test, analyze and maintain industrial automation equipment in proper working order. | * Build a device using sensors and output devices to accomplish a task and perform subsequent testing and evaluation of its performance. (CETT 1445) * Perform a lab using instrumentation devices for troubleshooting remote monitoring system (INTC 1307) | 70% of students will earn a grade of 70% or better on indicated measures |

**Description of Fields in the Following CIP Tables:**

**A. Outcome(s)** -Results expected in this program (e.g. Students will learn how to compare/contrast conflict and structural functional theories; increase student retention in Nursing Program).

**B. Measure(s)** -Instrument(s)/process(es) used to measure results

(e.g. results of surveys, test item questions 6 & 7 from final exam, end of term retention rates, etc.)

**C. Target(s)** -Degree of success expected (e.g. 80% approval rating, 25 graduates per year, increase retention by 2% etc.).

**D. Action Plan** -Based on analysis, identify actions to be taken to accomplish outcome. What will you do?

**E. Results Summary** - Summarize the information and data collected in year 1.

**F. Findings** - Explain how the information and data has impacted the expected outcome and program success.

**G. Implementation of Findings** – Describe how you have used or will use your findings and analysis of the data to make improvements.

**Table 2. CIP Outcomes 1 & 2 (FOCUS ON AT LEAST 1)**

|  |  |
| --- | --- |
| 1. **Outcome #1**   Increased enrollment in the Industrial Automation program | |
| 1. **Measure (Outcome #1)**  * Host information sessions for CTE students of major local ISDs * Create social media presence * Work with Collin Corporate College to promote the Industrial Automation program to local manufacturing companies | 1. **Target (Outcome #1)**   Initial enrollment of 10 students |
| 1. **Action Plan (Outcome #1)**  * Contact local ISDs for collaborating on program information sessions for CTE students * Create LinkedIn and Facebook accounts for the program * Contact Collin Corporate College to help reach out to local companies | |
| 1. **Results Summary (Outcome #1)**  * Career Coach attended various onsite high school events to host information tables about the program in Fall 21. * LinkedIn, Instagram and Facebook accounts were opened, and department related news were posted weekly during Fall 21. * Two short training sessions were hosted in the department in collaboration with Collin Corporate College for Dynacraft employees. | |
| 1. **Findings (Outcome #1)**  * Eight students enrolled in the program and only six students are continuing into the second year of the program. * Social media and company tours helped draw 8 students in the program. Social media activity has been nil since Spring 2022. There is no career coach for the program who can oversee that, visit high schools to host information sessions or provide guidance to students in the program to help completion. * More PR efforts and a career coach/program coach are needed to advance this program. | |
| 1. **Implementation of Findings**  * A request for career coach has been made to the leadership. * Program banners have been made in partnership with PR department to promote the program at various events. | |

|  |  |
| --- | --- |
| 1. **Outcome #2**   Coursework development completed for all Automation classes | |
| 1. **Measure (Outcome #2)**   Develop syllabi / course content for ELMT 1301, ELMT 2339, INTC 2359 | 1. **Target (Outcome #2)**   100% Completion of course development |
| 1. **Action Plan (Outcome #2)**   Faculty will develop these courses in Spring 2021 | |
| 1. **Results Summary (Outcome #2)**   ELMT 1301 course developed; Outline of the syllabus developed for ELMT 2339 and INTC 2359 courses by end of Spring 22. | |
| 1. **Findings (Outcome #2)**  * The sole FT faculty for the department resigned in May 2022. This faculty position was unfilled for few months. * Leadership approval was obtained to convert 170 faculty contract position to 260 contract position to attract suitable candidates. | |
| 1. **Implementation of Findings**  * The FT faculty position was converted to 260 contract position and FT faculty has been hired during Fall 22 semester. * The new FT faculty will prepare the content for the ELMT 2339 and INTC 2359 courses and simultaneously teach them in Spring 23. | |

|  |  |
| --- | --- |
| 1. **Outcome #3**   Students will be able to demonstrate troubleshooting skills in electronics to test, analyze and maintain industrial automation equipment in proper working order. | |
| 1. **Measure (Outcome #3)**  * Build a device using sensors and output devices to accomplish a task and perform subsequent testing and evaluation of its performance (CETT 1445) * Perform a lab using instrumentation devices for troubleshooting remote monitoring system (INTC 1307) | 1. **Target (Outcome #2)**   70% of students will earn a grade of 70% or better on indicated measures |
| 1. **Action Plan (Outcome #3)**   Develop rubrics for the measures in respective courses | |
| 1. **Results Summary (Outcome #3)**  * The program was delayed by 1 year and therefore no students in this program have taken CETT 1445 course yet. * For INTC 1307   average lab grade - 98, minimum grade - 93, and maximum grade - 100 | |
| 1. **Findings (Outcome #3)**  * Target met for INTC 1307 course * Next available data for CETT 1445 course will be in Spring 2023. | |
| 1. **Implementation of Findings**   The data for CETT 1445 course will be collected and analyzed in the next CIP of the program. | |