Assessment: Course Four Column

Courses (CTE) - Electrical Instrumentation Tech

EIT 468:Advanced Control Systems

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Fiber optics and Ethernet is used in instrumentation applications - Understand where fiber optics and Ethernet is used in instrumentation applications and discuss the pros and cons of each **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Practical Test -** Practical Test **Criterion:** 100 % passing rate with a passing grade of C- or better	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 100 % students successfully completed lab activities (10/23/2018)	**Action:** Incorporate a hands on fiber splicing lab (10/23/2018)
Fieldbus or its equivalent and what the future might hold for this application - Be able to explain the purpose of a Fieldbus or its equivalent and what the future might hold for this application. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Written Test -** Written Test **Criterion:** 100% Passing rate with a passing grade of C- or better	**Reporting Period:** 2017-2018 **Criterion Met:** No 100% Pass Results Analysis The students did not get any fieldbus lab experience this year (10/23/2018)	**Action:** Incorporate fieldbus instruments in the lab (10/23/2018)
DeltaV in the application of a process control loop - Utilize DeltaV in the application of a process control loop **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Practical Test -** Practical Test **Criterion:** 100% Passing rate with a passing grade of C- or better	**Reporting Period:** 2017-2018 **Criterion Met:** No 0% Pass Results Analysis: Did not get accomplish a running DeltaV loop, due to time constraints this portion of the lab was not completed (10/23/2018)	**Action:** Complete this lab by next spring to have this available to the students. Use plus days in summer and winter break to finish 100% of the labs (10/23/2018)
Provide evidence of installation, P&ID layout, electrical, mechanical,	**Practical Test -** Practical **Criterion:** 100% Passing rate with a	**Reporting Period:** 2017-2018	

Course Outcomes	Assessment Measures	Results	Actions
pneumatic, and hydraulic skills - Provide evidence of installation, P&ID layout, electrical, mechanical, pneumatic, and hydraulic skills through an group class project requiring no less than 20 hours planning and construction time **Course Outcome Status:** Active **Next Assessment:** 2023-2024	passing grade of C- or better	**Criterion Met:** Yes 100% Pass Results Analysis: DeltaV labs construction 95% complete (10/23/2018)	
UnderstProgrammable Logic Controller, i.e. PLC, and how it is applied to control systems and processes. Introductory class on Distributed Control System (DCS) - Understand the principles of a Programmable Logic Controller, i.e. PLC, and how it is applied to control systems and processes. Introductory class on Distributed Control System (DCS) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Performance/Presentation -** Presentation **Criterion:** 100% Passing rate with a passing grade of C- or better	**Reporting Period:** 2017-2018 **Criterion Met:** Yes 100% Pass Results Analysis: Students gave presentations on SCADA, PLC, and DCS (10/23/2018)	