**Course Prefix, Number, and Title: EIT 368 Measurement System Analysis**

**Section Number(s): 1002**

**Department: Instrumentation CTE**

**Instructor: Bryan Asusta**

**Academic Year: 2019-2020**

**Semester: Fall**

**Is this a GenEd class? Yes\_\_\_ No\_X\_**

**Complete and submit your assessment report electronically to your department chair. As needed, please attach supporting documents and/or a narrative description of the assessment activities. You may use as many or as few outcomes as necessary.**

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| **Class/Course Outcomes** | **Assessment Measures** | **Assessment Results** | **Outcome Results Analysis** |
| In the boxes below, summarize the outcomes assessed in your class or course during the last year*.* If this is a GenEd class, include the appropriate GenEd objectives. | In the boxes below, summarize the methods used to assess course outcomes during the last year. Include the criterion you’ll use to judge whether or not students have achieved the expected outcome. | In the boxes below, summarize the results of your assessment activities during the last year. Include your judgement as to whether or not the criterion for student achievement has been met. | In the boxes below, please reflect on this outcome’s results and summarize how you plan to use the results to improve student learning. |
| Outcome #1:  Evaluate equipment and system performance against measurement system with errors. | Assessment Measure:  Practical Teste  Criterion for achievement:  100 % passing rate with a passing grade of C- or better | Results:  100 % students successfully completed lab activities  Criterion Met: Yes/No  Yes | 1. Results Analysis:  Good labs on the simulation sofware  2. Action Plan:  Spend more time on the PC-Control simulation software |
| Outcome #2:  Calibration of sensors using HART | Assessment Measure:  Practical Test  Criterion for achievement:  100% Passing rate with a passing grade of C- or better | Results:  100 % students successfully completed lab activities  Criterion Met: Yes/No  Yes | 1. Results Analysis  Students this year did really good with calibration and configurations on transmitters  2. Action Plan:  Complete the skills check off sheet by the end of this class |
| Outcome #3:  The vocabulary of measurement system analysis: Accuracy, Bias, Gain, Precision, Repeatability, Reproducibility, Stability, Linearity, Capability, Precision, Tolerance, Constant error, Random error, Systemic error. | Assessment Measure:  Practical Test  Criterion for achievement:  100% Passing rate with a passing grade of C- or better | Results:  100% Pass  Criterion Met: Yes/No  Yes | 1. Results Analysis  2. Action Plan: |
| Outcome #4:  Significance of a calibration sticker on an instrument. | Assessment Measure:  Written Test  Criterion for achievement:  100% Passing rate with a passing grade of C- or better | Results:  100% Pass  Criterion Met: Yes/No  Yes | 1. Results Analysis:  2. Action Plan: |
| Outcome #5: | Assessment Measure:  Practical Test  Criterion for achievement: | Results:  Criterion Met: Yes/No | 1. Results Analysis:  2. Action Plan: |
| Outcome #6: | Assessment Measure:  Criterion for achievement: | Results:  Criterion Met: Yes/No | 1. Results Analysis:  2. Action Plan: |

**Notes:**

This class is currently co-taught by Jim and me. I am going to work with Jim and submit to C&A changes where we could absorb the credits of this class in the other four classes and migrate the outcomes of this course to some classes in the Spring semester.

I have reviewed this report:

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Department Chair Dean

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_­\_\_\_\_\_\_

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Vice President of Academic Affairs and Student Services

Date\_\_\_\_\_\_\_\_\_\_\_­\_\_\_\_