

Assessment: Course Four Column

Fall 2017



El Camino: Course SLOs (IND) - Automation, Robotics, and Manufacturing (ETEC, MTEC, MTT)

ECC: ETEC 14A:Electronics for Engineering Technologists I

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
<p>SLO #4 Series Circuit Resistance & Current - Given a series circuit with several resistors, calculate the total resistance; and given a voltage across this series circuit, calculate the current.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2017-18 (Fall 2017)</p> <p>Input Date: 11/29/2013</p> <p>Inactive Date:</p> <p>Comments::</p>	<p>Laboratory Project/Report - The Series Circuit project has students design a circuit for a purpose, such as providing electricity for a light bulb. Students work in teams to design circuit and apply the most basic use of voltage, current and resistance. Using Ohms Law students will calculate the resistance needed to light a bulb of known amperage with a static power supply such as a battery. The team will then construct the circuit on a proto board or circuit builder board and observe the results of their calculations. The results of the activity will be recorded in their individual Engineering Notebooks and submitted for evaluation.</p> <p>Standard and Target for Success:</p> <p>Based on Mastery. This is a pass-fail outcome. All students are expected to master the concept. Some students will accomplish the objective on the first try, others may</p>	<p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017)</p> <p>Standard Met? : Standard Met</p> <p>88 students enrolled in 3 sections mastered the outcome in the Fall 2017 semester. Student success of the outcome was demonstrated by completing the task, comparing the theoretical with the actual and documenting the results (laboratory report) in their Engineering Notebook.</p> <p>(03/01/2018)</p> <p>% of Success for this SLO: 95</p> <p>Faculty Assessment Leader: Ron Way</p> <p>Faculty Contributing to Assessment: Ted Harder, Stan Masaoka, and Jose Rivas</p>	<p>Action: Place more importance on the creation and maintenance of the Engineering notebook, particularly in real-world applications. (03/01/2019)</p> <p>Action Category: Teaching Strategies</p>

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require multiple attempts. This outcome is foundational and required for students to progress in the course.

Additional Information: