

Learning Assessment Plan, 2009-2010

Critical Thinking and Problem Solving

SAC: Electronic Engineering Technology (EET)

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1. Please describe your plan of action for 2009-2010 Academic Year:

i) EET part time and full time faculties assess their classes on a regular basis through student evaluations. These evaluations are administered during the midterm and at the end of the term as well. Since critical thinking is embedded in these evaluations we will continue to administer them in all our classes. To better address the critical thinking criteria Instructors will analyze the evaluations and make appropriate changes.

ii) The EET 256-Capstone Project course is using strong problem solving and critical thinking skills. We will modify the grading guidelines of this course to include critical thinking and problem solving criteria for better feedback.

iii) All EET labs include problem solving and critical thinking skills. Students use these skills to build their projects and perform measurements/troubleshooting in the same time.

2. When your project is completed, please describe the method(s) you used.

We plan to improve student evaluations, labs, and capstone projects to receive better feedback on students' critical thinking/problem solving skills.

3. What did you learn?

The existing EET 256-Capstone Project class does not include specific guidelines for critical thinking and problem solving at this time. Emphasizing student presentations/lab reports during labs and the capstone project will greatly benefit students. During the labs students need to have both group and individual projects. Student evaluations need to be customized to give better feedback on critical thinking/problem solving skills.

4. What changes, if any, are you making or recommending as a result?

- i) Create specific guidelines for the EET 256-Capstone Project course to highlight students' critical thinking/problem solving skills.
- ii) Modify the existing EET student evaluations to provide better feedback on critical thinking/problem solving skills

- iii) Require both individual and group projects for our EET labs, as appropriate for each class
- iv) Increase the number of presentations/lab reports, as appropriate, in our EET classes

5. Follow up in 2010-2011 based on any changes you have made.