

To be filed

COURSE ASSESSMENT REPORT

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Background Information

I. Course assessed:

Course Discipline Code and Number: ELE 254

Course Title: PLC Applications

Division Code: BCT Department Code: ELE

II. Semester assessment was administered (check one):

- Fall 20\_\_
- Winter 2005
- Spring/Summer 20\_\_

III. Assessment tool used (check one):

Please attach a copy of the tool and scoring rubric used.

- Portfolio
- Standardized test
- Other external certification/licensure exam (please describe): \_\_\_\_\_
- Survey
- Prompt
- Departmental exam
- Capstone experience (please describe): \_\_\_\_\_
- Other (please describe): \_\_\_\_\_

Has this tool been used before?

- Yes
- No

If yes, has this tool been altered since its last administration? If so, briefly describe changes made.

The exam was rewritten

IV. Please list the section(s) in which this tool was administered:

01 \_\_\_\_\_  
\_\_\_\_\_

V. How many students were assessed? 12-24

1/6/05

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**Results**

I. Briefly describe assessment results based on data collected for the course assessed, demonstrating to what extent students are achieving the learning outcomes as found in the master syllabus (see attached).  
Please attach any data collected.

Methods: (See attached spreadsheet). Each final exam question was categorized according to which outcome it assessed. Overall averages were determined for each objective. Overall averages of >30% for any outcome were examined (highlighted in red).

Results: As can be seen from the accompanying chart, there were ten questions which more than 30% of the class answered incorrectly. Most of the difficulty occurred in the outcomes areas: Motion Control (32% overall average wrong for this outcome) and Complex Systems (23% overall average wrong for this outcome. These two areas were taught at the end of the semester and it feels a little cramped trying to cover the material adequately. A better fit for the motion control material may be the Motors and Controls course. A better assessment tool for the Complex Systems would be a hands on approach. Next time the class is taught, we will try using a Task List for assessing this outcome.

II. Based on the outcomes outlined in the master syllabus for the course assessed, did students meet expectations of the learning outcomes of that course?

- Yes
- No

Percentage of students meeting outcomes: If all objectives are averaged, the overall average %wrong was 20%, or in other words, the success rate was 80%. If all the questions for an objective were averaged, the average % wrong ranged from 19 to 32% (success rate ranged from 68% to 91%.

III. What areas of strength and weakness in students' achievement of the learning outcomes of the assessed course (as stated in the master syllabus) did assessment results show?

**Strengths:** PLC communications, Analog I/O, and Process Control were about equally strong.

**Weaknesses:** Motion Control and Complex Systems

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Changes influenced by assessment results

I. If weaknesses were found (see III above) or students did not meet expectations, what action will be taken to address this?

Motion Control material will be taught in the Motors and Controls course next semester.

Complex Systems will be assessment using a Task List next time.

II. Identify any other intended changes that will be instituted based on results of this assessment activity (check all that apply). Please describe changes and give rationale for change.

Master syllabus

Description and rationale:

\_\_\_\_\_

Curriculum

Description and rationale: \_\_\_\_\_

\_\_\_\_\_

Course syllabus

Description and rationale: \_\_\_\_\_

\_\_\_\_\_

Course assignments

Description and rationale: \_\_\_\_\_

\_\_\_\_\_

Course materials (check all that apply)

Textbook:

Handouts

Other: \_\_\_\_\_

Teaching methodology

Description and rationale: \_\_\_\_\_

\_\_\_\_\_

Other: \_\_\_\_\_

Description and rationale: \_\_\_\_\_

\_\_\_\_\_

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Future plans

I. Was the assessment tool used effective in measuring student achievement of learning objectives for this course? If not, why?

Yes, it confirmed what I already suspected.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

II. If the assessment tool was not effective, what changes will be made in future assessments?

The final exam can be improved by more evenly distributing the exam questions among the objectives (3 or 4 questions per objective.) and by adding a Task List  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Submitted by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Department Chair: \_\_\_\_\_

Date: \_\_\_\_\_

Dean: \_\_\_\_\_

Date: \_\_\_\_\_

*Please return completed form to the Office of Curriculum & Assessment, SC 247.*