

DEPARTMENT OF ELECTRONIC ENGINEERING

Unit Quality Assurance Report

YEAR: 2005
SEMESTER: Semester 1
UNIT CODE: ELE31CTL
UNIT TITLE: Control Systems
LECTURER(S): Song Wang
CLASS SIZE: 52

UNIT OBJECTIVES:

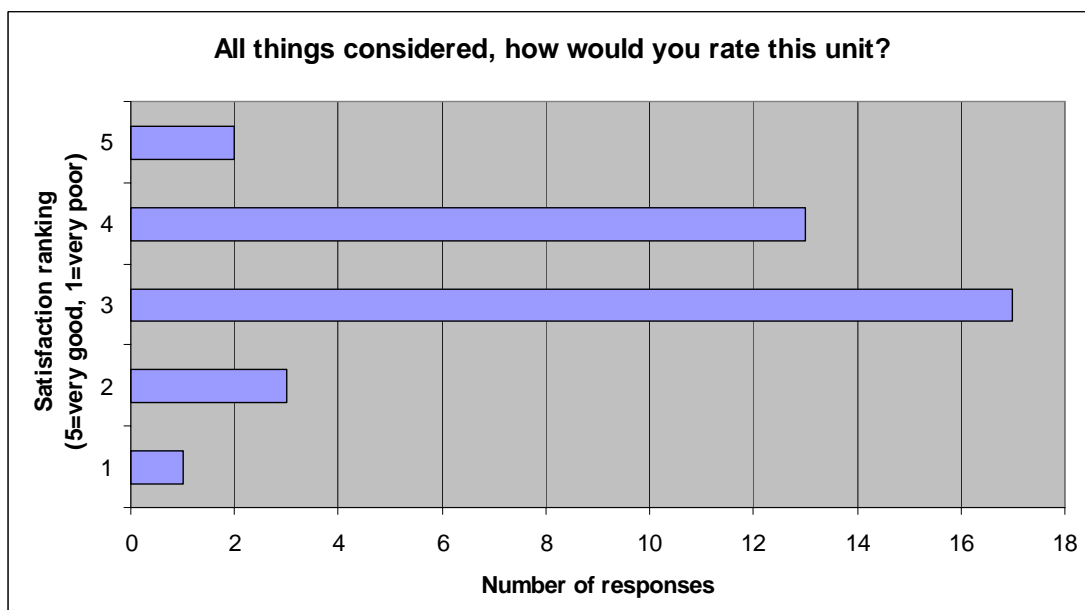
This unit is intended:

- to provide students with fundamental principles of linear feedback control theory in time and frequency domains, and
- to equip students with problem solving skills to apply control engineering techniques in the analysis and design of control systems.

SURVEY RESULTS AND ANALYSIS OF INDIVIDUAL QUESTIONS:

The quality assurance survey results show that overall students are satisfied with the unit. Due to the nature of the unit, it entails substantial mathematical involvement, which can be challenging to students. This point was well addressed in the course of teaching and as a result, students got a good understanding of the physical meaning behind the math. This is supported by the responses of questions 1, 2, 7, 10 and 14 in the survey.

DISCUSSION AND RECOMMENDATIONS REFERRING TO UNIT OBJECTIVES AND SURVEY RESULTS:



- Students were happy with the lecture notes and assignments but not as happy with the textbook.
- It is reflected from the survey that the workload of the unit is heavy, which ought to be made suitable to students in the future.
- Generally students are weak in vector/matrix theory and hence more preparations should be made prior to teaching the formal course material that uses the required math.

RECOMMENDATION(S) FOR FOLLOWING YEAR:

- More tutorial problems will be added so as to show students how to apply theory.
- Assistance will be provided to students with respect to lab preliminary work. It is also a measure to address the workload issue.
- Lab attendance will be taken so that students cannot skip labs and still submit lab reports