EE 3724 Power Laboratory 1

University of Colorado Denver
College of Engineering and Applied Science

Term: Fall 2009
Course dates/days/times: Friday 7:00-9:50 PM
Course location: NC 2613
Office Hours: After Class

Instructor: Francisco Munoz
Office location: NC 2613
Phone: 303-862-4296
email address: frmunozmartin@gmail.com

Course Design

Catalog Description: EE 3724-1. Power Laboratory I. Basic electro-mechanical energy conversion concepts as applied to the synchronous machine, induction machine, DC machine, and the transformer applications. Prereq or coreq. EE 3164. EE/CSC 2142

Course Description: This course provides hands-on work with most common electric machines applied in power systems and applies power engineering principals to design and analysis.

Course Objectives: Students will acquire a practical knowledge of the principals behind and methods of analysis for common electric machines.

Requirements

Required Texts: Laboratory manual handed out in class.

Assignments and Examinations: Course consists of six labs. A presentation on each lab is given the week before the lab is performed describing the engineering principals involved in the lab. Students must complete all labs and turn in **individual** lab write-ups. Labs write-ups are **due one week** after the lab is performed.

Assessment Design

Grades: There are 600 points possible in this class. Lab write-ups are 100 points each. A>540 points, 540≥B>480 points, 480≥C>420 points, 420≥D>330 points, 330≥F. Scale is absolute and no grades are dropped. Late work is accepted **only** if previous notice is given.

Graded work will be returned one or two weeks following its due date.

Course Policies: Students must perform all labs and turn in **individual** lab write-ups. Attendance is mandatory for the lab. Late work is accepted only with prior arrangement, or in case of illness or emergency. Illness or absences can be reported by e-mail. When pre-arranged, missing labs may be made up and turned in until the end of the semester at full credit. If not pre-arranged, **late labs** will be penalized **twenty points**. Make up labs can be arranged if necessary.

Not performing a lab will reduce the grade on the lab no matter the grade on the write-up. Cheating or plagiarism will be penalized. **Copying** from other students' lab report will be penalized with **twenty points** for all the students involved in the incident. **No lab write-ups** are accepted **via e-mail**. All work must be turned in personally during normal class hours. Dates of labs and lectures may be modified as necessary during the semester.

Course Schedule

Class Schedule (Dates subject to change)

Date	Topic	Required Reading	Assignments
8/17	Lab 1 Lecture	Lab 1 Manual	
8/24	Lab1		
8/31	Lab 2 Lecture	Lab 2 Manual	Lab 1 due
9/7	Labor Day No Class		
9/14	Lab 2		
9/21	Lab 3 Lecture	Lab 3 Manual	Lab 2 due
9/28	Lab 3		
10/5	Lab 4 Lecture	Lab 4 Manual	Lab 3 due
10/12	Lab 4		
10/19	Lab 5 Lecture	Lab 5 Manual	Lab 4 due
10/26	Lab 5		
11/2	Lab 6 Lecture	Lab 6 Manual	Lab 5 due
11/9	Lab 6		
11/16	Make-up labs if needed		Lab 6 due(submit to Janiece at the EE office)

Course Communication

- Office hours are after class.
- The use of e-mail for questions and other correspondence is encouraged.

Students called for military duty

- If you are a student in the military with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact Paul Rakowski.