ECE 3354 POWER ENGINEERING LABORATORY Fall 2017

Course Supervisor: Dr. Jaime De La Reelopez.
Laboratory Supervisor: Richard Cooper, 244 Whittemore.

Objective: The overall objective of this course is to enhance the students understanding of the concepts of electromechanical energy conversion and machine performance. Each experiment has a stated objective.

Text: ECE 3354 Power Engineering Lab Manual, available online at http://www.courses.ece.vt.edu/ece3354/

Course Format: This is a concept laboratory. Each student is expected to perform each experiment as part of a group, document the observations, and write a report or take an online quiz explaining the observations in terms of the theory learned in courses ECE 3304. Merely reporting the observations is not sufficient for successful completion of the course. The emphasis is on how and why a device responded the way it did.

Reports: Each student must submit a handwritten report independent of the other students. Use the template for each report. Sharing of explanations and conclusions is a violation of the honor code.

Reports must be handwritten, neat, legible, and must include the ordinal data sheets. Late reports will be penalized at the rate of 5 points for every day late.

ACCOMMODATIONS FOR MEDICAL OR PERSONAL/FAMILY EMERGENCIES
If you become ill and have to miss class, especially in the case of an exam or some due date, you should see a professional in Schifbert Health Center in McComas Hall and acquire a medical excuse**. If you experience a personal or family emergency, you should contact the Dean of Students Office
**which is then provided via email to the instructor from the College of Engineering Dean’s office.

Prelab

For preparation read the lab and answers assigned prelab questions, be familiar with the lab procedures and the concepts to be demonstrated.

Grading:
There will be a 50% deduction of the Quiz or Report score if the in class lab is not completed.
*Reports, Quizzes and prelab questions. 85%
*Final exam: 15 %.

A 100% to 93%      A- < 93% to 90%
B+ < 90% to 87%    B < 87% to 83%
C+ < 80% to 77%    C < 77% to 73%
D+ < 70% to 67%    D < 67% to 63%
F < 60% to 0%

The final exam will be based on the experiments and will measure the students understanding of the concepts.

Each experiment must be performed, each report submitted or quiz taken, and the final exam taken to qualify for course credit.

Honor Code: Since students must work in groups, there will be sharing of measured data. Each student must write a report independent of the other students. Sharing of explanations and conclusions is a violation of the honor code.