UNIVERSITY OF PITTSBURGH
Swanson School of Engineering

ECE 2774 – Power Systems Analysis II – Spring 2017

Objective: To gain an understating of some of the basic concepts of electric power systems fault analysis; topics include symmetrical faults, series R-L circuit transients, three-phase short circuits, symmetrical components, sequence networks of series impedances, per-unit sequence models of transformers, unsymmetrical faults and system protection.

Career: Graduate()

Instructor: Robert Kerestes, Ph.D.
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Office Hours: TBA., 1224 BEH

TA: TBA

Website: Courseweb/Blackboard

Text: J. Duncan Glover, Mulukutla S. Sarma, Thomas Overbye, *Power Systems Analysis and Design, 6th Edition*, Cengage Learning, ISBN-10: 130563618X | ISBN-13: 9781305636187

Lectures: Wednesday, 6:00 – 8:30 p.m., Room: TBD

Attendance: Students are responsible for all material covered in class and should obtain materials from any missed lectures from a classmate.

Grading:

Homework/Projects	30%
Midterm Exam	35%
Final Exam	35%

Homework: Homework problems will be assigned on Wednesday and due the following Thursday at 4:00 pm. ***No late homework will be accepted.*** Make sure to turn in a ***neatly done and stapled*** homework with ***all final answers boxed***. Not following these instructions are grounds for point deductions.

Software: Homework assignments will require the use of Simscape, which is a physical modeling tool which exists in MATLAB's Simulink environment. This software can be downloaded for students at no cost at www.software.pitt.edu

Exams: There will be a midterm and a final, with weights as shown above. Attendance at all exams is mandatory. Make-up exams will only be given in the event of an emergency only if advance notification and a written excuse is provided.

Plagiarism: Students must do their own work. Plagiarism of another student's or another author's work is a serious offense, and can result in dismissal from the University of Pittsburgh.

Students may consult each other with regard to the homework problems, but **must not** turn in identical assignments.