Course Description

This course is a continuation of Power System Analysis I and covers power flows, symmetrical faults, symmetrical components, and unsymmetrical faults.

Course Information

Class Time: TR 6:00-7:20 pm, January 17 – May 04, 2023
Location: Quinn Hall 202

Instructor Information

Instructor: Yuanrui Sang, Ph.D.
Email: ysang@utep.edu
Phone: (915) 747-6632
Office: Engineering Building, Room A-334
Office Hours: 5:00-6:00 PM on Tuesdays

Course Materials

Authors: J. Duncan Glover, Mulukutla S. Sarma, Thomas Overbye, Adam Birchfield.
Publisher: Cengage Learning, Inc.

Course Outcomes

The goal of this course is to provide students with a complete overview of power flows, symmetrical faults, symmetrical components, and unsymmetrical faults. Students completing this course will have:

- Ability to evaluate the power flows in power systems.
- Ability to analyze symmetrical faults.
- Ability to analyze symmetrical components.
- Ability to analyze unsymmetrical faults.
**Topic Covered in this Course (Tentative)**

1. Power flows
2. Symmetrical faults
3. Symmetrical components
4. Unsymmetrical faults

**Grading Policy**

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
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<tr>
<td>80 – 89</td>
<td>B</td>
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<td>70 – 79</td>
<td>C</td>
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<td>60 – 69</td>
<td>D</td>
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<td>&lt; 60</td>
<td>F</td>
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For EE 4395:

Homework: 35% in total. If for some reason you cannot finish the homework on the due date, the grade will be reduced proportionately to the days passed after the due date (10% off for each day passed).

Two exams: 20% each.

One course project: 15%.

Attendance: 10%.

For EE 5390:

Homework: 30% in total. If for some reason you cannot finish the homework on the due date, the grade will be reduced proportionately to the days passed after the due date (10% off for each day passed).

Two exams: 20% each.

Two course projects: 10% each.

Attendance: 10%.

**Policy on Scholastic Dishonesty**

Students are expected to be above reproach in all scholastic activities. Students who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the university. Scholastic dishonesty includes but is not limited to reproducing test or quiz materials from memory, copy/paste, cheating, plagiarism, collusion, the submission for credit or any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts. Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22. See detailed procedure in the Handbook of Operating Procedures (HOP) available in the Office of the Dean of Students.
Policy on Accommodations

If you have a condition, which may affect your ability to perform successfully in this course, you are encouraged to discuss this in confidence with the instructor and/or the director of the Disabled Student Services. Written guidelines r/t accommodations from The Center for Accommodations and Support Services (CASS) must be submitted to the course manager in two weeks after the start of the course. If you have a disability and need classroom accommodations, please contact CASS at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass. CASS Staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.

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