EL5613 – Introduction to Electric Power Systems

SYLLABUS

9/9  - Lecture 1: Power in single-phase AC circuits, and power factor
9/16 - Lecture 2: Voltage and current in three-phase circuits
9/23 - Lecture 3: Complex power, and power triangle
10/7 - Lecture 5: Pi-equivalent diagram – short and medium length lines
10/14 - Lecture 6: Pi-equivalent diagram – long lines

• Midterm examination (Oct. 21)
10/28 - Lecture 7: Transmission lines parameters – Transformers
11/4 - Lecture 8: Per-unit normalization
11/11 - Lecture 9: Transmission lines parameters – generators
11/18 - Lecture 10: Symmetrical components – basics
11/25 - Lecture 11: Symmetrical components – application to fault analysis
12/2 - Lecture 12: Symmetrical components – unsymmetrical faults
12/9 - Lecture 13: Load-flow programming – basics

• Final exam (Dec. 16)


Grading policy:
Home work    – 10%
Midterm exam  – 30%
Final Exam    – 60%

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