ELEG 5503 – Design of Advanced Power Distribution Systems
Fall 2017

TIME: **11:00 AM-12:15 PM, TR** VENUE: **BELL 2284**

TEXTBOOK: **ELECTRIC POWER DISTRIBUTION SYSTEM ENGINEERING, Turan Gonen, Third Edition, CRC Press**

INSTRUCTOR: **Dr. J. C. BALDA (3171 or 3220 Bell Engineering Center, Tel: (479) 575-3005, Fax: (479) 575-7967, e-mail: jbalda@uark.edu)**

OFFICE HOURS: **MWF = 8:00-10:00am; otherwise by appointment.**

1.0 COURSE OUTLINE

1.1 Chapter 4: Design of Subtransmission Lines and Distribution Substations
1.2 Chapter 5: Design Considerations of Primary Systems
1.3 Chapter 10: Distribution System Protection
1.4 Chapter 3: Application of Distribution Transformers
1.5 Chapter 9: Distribution System Voltage Regulation
1.6 Chapter 8: Applications of Capacitors to Distribution Systems
1.7 Chapter 13: Distributed Generation and Renewable Energy

2.0 GRADING POLICY

Tests	75%
Homework Problems	25%

The first test covers Chapters 4 and 5, the second test Chapter 10, the third test Chapter 3, and finally, the fourth test covers Chapters 9, 8 and 13.

Grading system: $A \geq 90$, $90 > B \geq 80$; $80 > C \geq 70$; $70 > D \geq 50$

Cutting a test will result in a zero grade; i.e., THERE IS NO MAKE UP TEST UNDER ANY CIRCUMSTANCE. A formula sheet with only numbered equations from the textbook is allowed in each test. Drawings, equivalent circuits, solved problems ARE NOT ALLOWED on the formula sheet; failure to satisfy this will be considered academic dishonesty. As written in the UA Academic Integrity website, "As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail. Each University of Arkansas student is required to be familiar with and abide by the University's 'Academic Integrity Policy' which may be found at "provost.uark.edu/457.php". A short video is at http://www.youtube.com/watch?v=SQW_IoOhjvo&feature=youtu.be

Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor." Please, refer to www.ieee.org/about/whatis/code.html for the IEEE Code of Ethics.

3.0 ATTENDANCE POLICY

Attendance is voluntary; each student is responsible for the information presented during each class meeting. The final exam date is Tuesday December 13 2015 from 10:15am to 12:15pm. Please, verify this date.

4.0 GENERAL

Students are advised to make use of the Dr. Balda's office hours in order to reinforce any concept that may not be clear independently of their grades.

Any of the above rules may be changed at any time if the circumstances warrant doing so.