Instructor: Prof. J.K. Tugnait 313 Broun, 4-1846, tugnajk@eng.auburn.edu
Office Hours: MWF 10:30 – 11:50 AM; 2:00 – 3:00 PM;
e-mail for appointment at other times.

Prerequisite: ELEC 3400


Refs.: T.S. Rappaport, Wireless Communications: Principles and Practice, 2nd Ed.,

Web Site: http://www.eng.auburn.edu/users/tugnajk/
All posted notes are in “microsoft windows journal file” format.

Grading Basis:
Quizzes : 25 %
Test I : 35 % (Oct. 1, 2009, Thursday)
Final : 40 % (Dec. 15, 2009, Tuesday, 8:00 AM)

Attendance Policy: Class attendance and participation is required. Unexcused absences from more than 3 class sessions will receive an F in the course. For an absence to be excused, the student must present an official excuse obtained from the Engineering Student Services Office in 104 Ramsay no later than 1 week after the absence. For more information, see the Academic regulations in the Tiger Cub.

Homework: will be assigned periodically, but will not be collected. Solutions to the homework problems will be discussed in class.

Quiz Policy: Typically a quiz will be on material covered in the most recent homework assignment. There may be unannounced (pop) quizzes. The lowest quiz grade will be dropped from your average. No “make-up” quizzes will be given for any absences.

TEXT COVERAGE

• Chapter 5 (Cellular concept)
• Chapter 2 (Teletraffic eng.)
• Chapter 3 (Mobile radio propagation)
• Chapters 4 & 9 (Modulation/demodulation techniques)
• Chapter 6 (Multiple access techniques)
• Parts of Chapters 10 & 11 (time permitting)

ELEC 5100/6100. WIRELESS COMMUNICATION SYSTEMS (3). Pr., ELEC 3400, ELEC 3320. Introduction to mobile cellular radio and wireless personal communications, cellular concept, mobile radio propagation, modulation techniques, multiple access techniques, wireless systems and standards.