TE 3341 Probability, Statistics and Random Processes

SPRING 2000

Course Name and Number:	TE 3341 - Probability, Statistics and Random Processes
Instructor:	Prof. Murat Torlak
Instructor's Information:	Suite 3.518, torlak@utdallas.edu
Class Time and Place:	MW 3:30-4:45PM and EC 2.120
Course Web Site:	www.utdallas.edu/~torlak/probability
Office Hours:	T 2:00PM-4:00PM or by appointment
Grading:	Weekly homework (or computer) assignments (15%) ,
	Midterm I (20%), Midterm II (25%) Final (40%).

Homework Policy: Collaboration on solving the homework problems is encouraged. Turning in identical homework solutions, however, will be considered cheating. Late assignments will not be accepted. Textbook:

• Probability, Random Vaiables, and Random Signal Principles by P. Z. Peebles (3rd Edition)

Reference Books:

- Probability, Random Variables, and Stochastic Processes by Athanasios Papulis
- Probability and Random Processes for Electrical Engineering by Alberto Leon-Garcia
- Fundamentals of Applied Probability Theory by A. Drake

Course Description: This course covers the principles of probability, random variables, and random signals useful in a diverse range of telecommunications engineering fields such as communications, signal processing, and networks. MATLAB will be used as a software tool for the computer projects. **Tentative Course Outline:**

- 1. Probability (Chapter 1)
- 2. The Random Variable (Chapter 2)
- 3. Operations on One Random Variable (Chapter 3)
- 4. Multiple Random Variables (Chapter 4)
- 5. Operations on Multiple Random Variables (Chapter 5)
- 6. Random Processes (Chapter 6)

Academic Dishonesty: Please see the UTD Graduate catalog for policy on academic dishonesty. Giving or receiving aid on a graded assignment or test is considered cheating and will be harshly penalized.