Fall 2019: ELEC 3400: COMMUNICATION SYSTEMS
T Th 11:00 am – 12:15 pm  Broun 125

Instructor: Prof. J.K. Tugnait 313 Broun, 4-1846, tugnajk@auburn.edu
Office Hours: MW 11:00am – 11:50 am; 3:00 – 4:00 pm;
e-mail for appointment at other times.

Prerequisite: ELEC 3800.


Reference 1: B.P. Lathi and Z. Ding, Modern Digital & Analog Communication Systems,


Grading Basis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>10 %</td>
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<tr>
<td>Test I</td>
<td>30 %</td>
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<tr>
<td>(Oct. 3, 2019)</td>
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<tr>
<td>Test II</td>
<td>30 %</td>
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<td>(Nov. 12, 2019)</td>
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<tr>
<td>Final</td>
<td>30 %</td>
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<td>(Dec. 12, 2019, Thursday 12:00 noon)</td>
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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 no later than 1 week after the absence. For more information, see the Academic regulations in the Tiger Cub.

Homework: will be assigned periodically. Solutions to the homework problems will be discussed in class. Late homework will not be accepted. The lowest homework grade will be dropped from your average.

TEXT COVERAGE (in listed order)

- Chapter 2 & 5  Background ELEC 2120 and ELEC 3800 material —— READING ASSIGNMENT
- Chapter 7  Secs. 7.1-7.6, 7.8, 7.9: Sampling and PCM
- Chapter 8  Baseband digital transmission
- Chapter 9  Digital band-pass transmission techniques (parts)
- Chapters 3 & 4  Amplitude and angle modulation

ELEC 3400. COMMUNICATION SYSTEMS (3). Lec. 3. Pr., ELEC 3800. Pulse code modulation, line coding, information rate, equalization, amplitude modulation, angle modulation, noise in communication systems.