Instructor: Prof. J.K. Tugnait 313 Broun, 4-1846, tugnajk@auburn.edu
Office Hours: By appointment – please email.

Prerequisite: ELEC 3800.


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>Test II</td>
<td>30 %</td>
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<tr>
<td>Final</td>
<td>30 %</td>
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Covid Face Covering Policy: University policies, guidance and directives may be found online at https://auburn.edu/covid-resource-center/policies/. Current plan is for the class to meet without any face covering. However, if circumstances so warrant, at the sole discretion of the course instructor, students may be required to wear face coverings in class regardless of their vaccination status.

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 student policies online at https://www.auburn.edu/student_info/student_policies/.

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.