Course Description
In this course, we will discuss basic concepts and recent advances in the field of wireless communication networks. The course begins with an introduction of the fundamentals of wireless communication technology and continues with a discussion of selected topics for the following representative network types: cellular wireless networks, WLANs, ad hoc wireless networks, and wireless sensor networks.

Note: This course can be counted as a course in group3-Computer Systems for MS degree in CS and in group3-Computer Communications & Multimedia for MS degree in CE.

Textbook
- The print version can be purchased at the FAU bookstore or online at www.prenhall.com. The ISBN of the print version is 0-13-191835-4.

Instructor
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Goals
Understanding the fundamentals in wireless communication technology as well as basic features and recent advances in various wireless networks.

Studio Time: MWF 9:45 – 11:50 AM

Prerequisites
- Basic knowledge of computer communication networks.

Tentative Topics
1. Introduction
2. NS2 Network Simulator
5. Cellular Wireless Networks
6. WLANs
7. Ad Hoc Wireless Networks
8. Wireless Sensor Networks
9. Other Topics

**Tentative Evaluation**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>2 or 3 Assignments</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>45%</td>
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<tr>
<td>Project (simulation with <em>ns-2</em>) OR Survey Paper</td>
<td>25%</td>
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Lecture notes and all other references will be made available on *Blackboard*. 