

CENG 502 -Wireless Computer Networks and Communication

Semester: Spring 2015

Schedule: Friday 18:00-20:30 A201

Instructor: Melih Onuş

Office Hours: Wednesday, Thursday 10:20 – 12:10, L221

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Description: Technical background, wireless communication technology, wireless networking, wireless LANs

Text Book: Wireless Communications and Networks, William Stallings, Prentice Hall, Second edition, 2005

| Outline | Textbook |
|---|-----------------|
| Transmission Fundamentals | Chapter 2 |
| Communication Networks | Chapter 3 |
| Protocols and the TCP/IP Protocol Suite | Chapter 4 |
| Antennas and Propagation | Chapter 5 |
| Signal Encoding Techniques | Chapter 6 |
| Spread Spectrum | Chapter 7 |
| Coding and Error Control | Chapter 8 |
| Satellite Communications | Chapter 9 |
| Cellular Wireless Networks | Chapter 10 |
| Mobile IP and Wireless Access Protocol | Chapter 12 |
| Wireless LAN Technology | Chapter 13 |
| IEEE 802.11 Wireless LAN Standard | Chapter 14 |

Grading:

Attendance (%5)

Midterm (%45)

Final (%50)

Resources: CMU, Wireless Networks, complete set of lecture notes:
<http://www.cs.cmu.edu/~prs/wirelessS12/>