



Course Name	Wireless Networks
References	<ol style="list-style-type: none"><li>1. J. Schiller , “Mobile Communications”, Addison-Wesley Pub, Second edition, 2003.</li><li>2. William Stallings, “Wireless Communication &amp; Networks”, Pearson College Div; 2nd edition, 2004.</li><li>3. Vijay Garg, “Wireless Communications &amp; Networking”, Morgan Kaufmann, 2007.</li><li>4. Charles Thurwachter, “Wireless Networking”, Pearson College Div, 2002.</li></ol>
Course instructor	Dr. Mohammad Yousef Darmani
Syllabus	<ol style="list-style-type: none"><li>1. Mobile and wireless communication</li><li>2. Physical layer, coding, and transmission concepts</li><li>3. Collision and how to cope with it</li><li>4. Aloha, Slotted Aloha, CSMA, CSMA/CD</li><li>5. Hidden and exposed terminal, reservation, contention</li><li>6. Different packet types in layer two, DIFS, SIFS</li><li>7. Data frames in the second layer</li><li>8. Mobile IP</li><li>9. Routing, DSR, AODV</li><li>10. GSM, channel capacity</li><li>11. Bluetooth, Zigbee</li><li>12. 3G, 4G, 5G</li><li>13. Satellite communication</li></ol>