



Course Name	Wireless communication, Internet of things and Mobile computing
Major	Computer Application, Computer Software, Electronic Information Science and Technology, Electrical Engineering
Objective	To make the students master the IEEE802.11 protocol, mature mobile IP technology, blue-tooth development environment and development skills, understand the role of ad hoc routing in TCP / IP protocol stack ,and the basic characteristics of the sensor network.
Semester	6 th
Language	English
Learning/Teaching methods	Course teaching, demonstration and exercises
Hour	48h
Credit	3.0
Prerequisite	Information and Communication Engineering, Analog Electronic Technology, Wireless Communication, Internet Security technology, Advanced mathematics
Content	<ol style="list-style-type: none"> 1. Introduction (6h) 2. Wireless Transmission Technology (8h) 3. Wireless local area network (LAN) and 802.11 4. Wireless Personal Area Network(WPAN)and blue-tooth 5. Ad hoc network 6. Mobile Network 7. Sensor Network 8. Wireless network transmission protocol 9. Mobile computing applications
Grade/Exam	exam 80%+performance in class(homework)20%
Reference	<p>[1] Talukder, Asoke; Yavagal, Roopa. Mobile Computing: Technology, Applications, and Service Creation. McGraw-Hill Professional. ISBN 0-07-147733-0.2006.</p> <p>[2] B'Far, Reza. Mobile Computing Principles: Designing and Developing Mobile Applications with UML and XML. Cambridge University Press. ISBN 0-521-81733-1. 2004.</p> <p>[3] Zhen Xiang-quan. Wireless ad-hoc network technology practical tutorial. Tsinghua University Press, 2004.</p> <p>[4] Xu Lei-ming. NS and network simulation. Posts and Telecom Press,2003.</p>