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Course: Wireless Sensor Networks

Course No.: 3132114040

Credit / Course Hours: 2/32

Preparatory Course: Computer Networks

Course Description: The course introduces a broad coverage of the principles of wireless sensor networks. It includes the underlying theoretical concepts, key technologies, and typical applications of wireless sensor networks. The main topics are architecture, hardware, operating systems, physical layer protocol, MAC layer protocol, network layer protocol, transport layer protocol, localization, clock synchronization, data fusion, data management, typical applications, etc. Through the study of this course, students are expected to understand the basic theory of wireless sensor networks, master some key technologies in the design and implementation of wireless sensor networks, have a clear understanding of some topics in wireless sensor network research, and lay a solid foundation for academic research and engineering implementation.