< Wireless Internet of Things: Fundamental Theories and Applications > Course Description

Course: Wireless Internet of Things: Fundamental Theories and Applications

Course No.: 3712100140

Credit / Course Hours: 2/32

Preparatory Course: <Communication Principles> <Computer Networks>

Course Description: The course, Wireless Internet of Things: Fundamental Theories and Applications, is a fundamental course which aims to help the students link the basic theory of wireless communications with the emerging various applications of the Internet of Things (IoT). Through this course, students can lay a systematic knowledge foundation from the perspectives of the system architecture, the basic theories, and the key technologies, etc. Based on this course, future study of other advanced technologies can be facilitated. To this end, this course focuses on wireless communication technologies enabled IoT, and covers the perception layer, the network layer, as well as the application layer of wireless IoT. Both the overall knowledge structure of the IoT and the principles of relevant technical details are provided to the students, thereby helping them to understand the evolutionary direction of information and communication technologies and lay a solid foundation for their future employment and research.