1.Years of Study

Three years

2.Language of Instruction

Chinese (HSK Level 4)

3.Cultivation Objectives

This program focuses on international students “Chinese proficiency + job competence + professional ethics”, aiming to create an international, skilled and professional specialty. It cultivates high-quality technical and skilled talents with good professional spirit, such as teamwork, network ethics and harmonious development. It aims to cultivate students professional standards, social sciences literacy, specific abilities according to IoT engineering technicians and IoT system integration engineers. The students will gain the ability to undertake equipment installation, debugging, maintenance in IOT product manufacturing, IoT application development and system integration. They will also have bilingual (Chinese and English) abilities for international project cooperation.

4.Employment Positions

Main Positions:

(1) IoT engineering technicians

(2) IoT system integration engineers

(3) Embeded systems engineering technicians

5. Co-operative enterprises

(1) Aerospace Meteorological Technology Co., Ltd

(2) Jiangsu NewLand Technology Co., Ltd

(3) Zhongke Yihai High-Tech Development Jiangsu Co., Ltd

(4) Nanjing Future IoT Technology Co., Ltd

(5) Wuxi HaoAn Safety Technology Co., Ltd

6. Main courses

Serial number	Course name and module code	The main content of the course (Limit to 80 characters)	Hours and hours Credits	Nature of the course	Course Department
1	Linux Operating System and Applications :A (1310024)	Introduces the basics of the Linux operating system and server configuration, including installation, common commands, file systems, users and groups, disk management, network configuration, text editors, Shell programming, and network server setup.	48 hours, 3 credits	Compulsory	School of IoT Engineering
2	WEB Front-end Design and Development (1310109)	Covers HTML syntax, CSS styling, and scripting languages. Teaches webpage creation with HTML, style customization with CSS, and simple client-side interactions with JavaScript.	48 hours, 3 credits	Compulsory	School of IoT Engineering
3	Basic Electrical Technology: C (1310142)	Equips students with essential electrical foundation theory and circuit analysis methods for subsequent courses and practical work. Combines theory with dialectical materialism and scientific thinking cultivation to enhance problem-solving abilities, focusing on steady-state and dynamic circuit analysis.	48 hours, 3 credits	Compulsory	School of IoT Engineering
4	Public Cloud Operations and Applications (1310043)	Introduces public cloud basics, characteristics, application scenarios, and operation methods. Covers common product technologies and application skills, guiding students to build enterprise cloud services on public clouds.	48 hours, 3 credits	Compulsory	School of IoT Engineering
5	Embedded Application Development (1310137)	Introduces embedded system basics, structure, hardware platforms, operating systems, and development processes. Focuses on ARM-based hardware platforms, software programming, embedded Linux kernels, file systems, and Android-based visual design and development.	64 hours, 4 credits	Compulsory	School of IoT Engineering

6	Data Structures (1310100)	Covers data structure fundamentals, including linear lists, queues, stacks, binary trees, graphs, and their logical and physical structures. Also explores common algorithms like bubble sort, quick sort, shell sort, heap sort, binary search, and hash search.	48 hours, 3 credits	Compulsory	School of IoT Engineering
7	Network Switching and Routing: A (1310035)	Covers LAN switching, wireless LAN, routing, network security, WAN access, network design and management, and automation. Guides students in building and configuring small LANs with switches and routers, and designing LANs.	64 hours, 4 credits	Compulsory	School of IoT Engineering
8	Network Device Configuration and Debugging (1310031)	Introduces network technologies for building small and medium-sized enterprise networks. Divided into three modules: switch configuration and debugging (VLAN, spanning tree, link aggregation), router configuration and debugging (HDLC, PPP, static routing, RIP, OSPF), and network security configuration and debugging (ACL, NAT).	48 hours, 3 credits	Compulsory	School of IoT Engineering