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School of Physics and Electrical Engineering, Anyang Normal University

Location

Anyang Normal University, Anyang 455000, China

Further Information: http://wlx.aynu.edu.cn/

Overview

The School of Physics and Electrical Engineering, formerly known as the Physics and Chemistry Section of Anyang Normal University, was one of the earliest 4 discipline groups established in Anyang Normal University. It enrolled the first junior college students in 1978. In February 1980, the Physics and Chemistry Section was divided into two departments, namely Physics and Chemistry Sections, respectively. In 1992, the Physics Section was renamed the Physics Department. In 2009, it was renamed School of Physics and Electrical Engineering. In 2011, it became one of the earliest "Teaching and Research Oriented Secondary Colleges" of the university. It implements the strategies of "Building the Institute with Quality", "Reinvigorating the Institute with Scientific Research" and "Improving the Institute with Talents". It has built 5 provincial level research platforms, such as " Academician Expert Workstation of Silicon Materials and Photovoltaic Industry". It also has 5 provincial teaching engineering projects, namely "Physics Core Curriculum Teaching Team", "Physics Experimental Teaching Demonstration Center", "Electronic Information Engineering Characteristic Major", "Electronic Information Engineering Comprehensive Reform Pilot at provincial level", and "Physics Major Construction Point of Provincial First-class Major". Up to 2009, it has obtained 41 National Natural Science Foundation projects and published more than 500 SCI papers.

It has four undergraduate majors, namely Physics, Electronic Information Engineering, Electrical Engineering and its Automation, and New Energy Materials and Devices. It has one key discipline of the ninth batch of second-level disciplines in Henan Province, one state-level excellent online course, and one provincial-level first-class online and offline blended undergraduate course. There are 72 faculty and staff in total, among which 25 are senior teachers, accounting for 34.7%, and 42 are teachers with Doctor's degree, accounting for 58.3%.

Majors

- **Physics:** This major aims to cultivate students to obtain good mathematical foundation and numerical calculation ability. And then, the students could master the basic theory of physics, scientific thinking, and physical research methods. Senior professionals of this major will own scientific spirit, scientific literacy, scientific style and innovative consciousness, certain ability to acquire knowledge independently, practical ability, research and new technology development ability. They can engage in research and teaching of physics and related disciplines, applying physics knowledge to modern high-tech and various social fields.

- **Electronic and information engineering:** This major trains student to master the basic theory and knowledge of electronic technology and information system, making them have broad professional knowledge in the acquisition, transmission, processing and application of information. Students of this major are required to have good scientific literacy and a strong sense of engineering, innovation and entrepreneurship. They will be skilled in electronic information, computer application, information and communication engineering and other electronic information engineering fields, which makes them suitable for the job of scientific and technological research, product design and research, and technical management.

- **Electrical engineering and its automation:** This major trains student to master the basic theory and knowledge of electrical engineering and its automation discipline. It aims to enable students to obtain the basic training of engineers, having the spirit of innovation and practical ability. So that, students can be suitable for the job of motion control, industrial process control, power electronics technology, measurement and automation instrument, electronic and computer technology, information processing, management and decision making in areas, such as manufacture, research and development, test analysis, system operation, automatic control, power electronic technology,

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production management, electronic and computer technology applications. This major cultivates students to become compound senior engineering and technical talents

- **New energy materials and devices:** This major aims to cultivate students to have a solid foundation of natural science and basic knowledge of new energy materials and devices, and certain engineering technology and research skills. Then, they are capable of engaging in scientific research, teaching, technology development and related management in the fields of preparation, development and application of various new energy materials. In particular, this major focuses on training senior application-oriented professionals, engaged in the research, development and management of new products, new technologies and new processes in the fields of new energy materials and technologies, optoelectronic devices, power batteries, solar cells and so on.