# Mechanical and Electronic Engineering

Based on Tianjin, the major of mechanical and electronic engineering serves the Beijing-Tianjin-Hebei Region and faces the whole country. It focuses on the design, manufacturing, operation, maintenance and development of Electromechanical system and equipment, and takes the development strategy of manufacturing enterprises and Electromechanical technology service enterprises in Tianjin's Electromechanical and control industries as the goal, and strives to build into a dominant specialty with distinctive characteristics of Electromechanical comprehensive technology application. The major aims to cultivate students with good cultural quality and social responsibility, and master the basic theoretical knowledge of machinery, electronics, control, computer application, etc. To enable students to engage in mechanical and electrical equipment design and development, assembly and testing, operation and maintenance and management or CNC process design ability. To make students familiar with the mechanical and electrical industry standards, understand the economic management mode of modern enterprises, have a certain technical innovation ability and international vision of high-quality applied talents.

## List of Core Curriculum

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| 1 | Engineering Graphics |
| 2 | Electrical and Electronic Technology |
| 3 | Basis of Mechanical Designing |
| 4 | Sensors and Testing Technology |
| 5 | Electrical Control & PLC |
| 6 | Basis of Control Engineering |
| 7 | Motor Drive and Control Technology |
| 8 | Fundamentals of Electromechanical System Design |
| 9 | Application of Industrial Robot Technology |