



มหาวิทยาลัยวิทยาศาสตร์และเทคโนโลยีซานตง Shandong University of Science & Technology

Mechatronic Engineering (Mechanic + Electronic)

1. Academic Objective:

This major is designed to cultivate qualified personnel with advanced technology and engineering knowledge of mechatronics to meet the requirements of modern mechanical and electronic industry. To cultivate international practical technical personnel with the basic principles and knowledge about modern mechanical and electronic technology, and practical skills needed in mechanical designing, mechanical manufacturing and operating of digital control processing.

2. Main Courses:

Engineering Mechanics, Mechanical Design, Mechanical Manufacturing, Electrical and Electronic Technology, Mechanical Engineering Materials, Fundamentals of Manufacturing Technology, Digital Control Technology, CAD/CAM Technology, etc.

3. Career Opportunities:

Graduates are prepared for employment in product design, product manufacturing, digital control programming and equipment maintenance in related enterprises. Graduates also can do the related work of business management and technology management in related enterprise. Graduates will have fairly good abilities for experiment test, calculation and expression, and master document retrieval and other methods to acquire scientific and technological information. Graduates will have a better self-study and work adaptation capability, computer operation and application ability and innovative consciousness. Graduates will have insight and ability to apply systematic engineering ideas and modern operational knowledge to production and organization management.

4. Further Study:

Applicants with bachelor's degree of this major enjoy an advantage when pursuing further study and applying for a master degree in the leading technological areas such as mechanical and electronic engineering, mechanical design and theory, vehicle engineering, material processing and control engineering, machine design and manufacturing and their automation, etc. One third of the undergraduates can be admitted to master degree programs. Those who have excellent performance during undergraduate study can be excused from examination and directly go on postgraduate study.