

Introduction of Electromechanical Engineering School

Electromechanical Engineering School of Panzhihua University is one of the earliest and prior developing schools in this university. In this school, there are more than 44 teachers, among them, 3 professors, 13 associate professors, 2 senior technicians, over 16 lecturers, 16 of them possess Master's degree, 7 Doctor's degree. 2 science research projects and 3 teaching research projects, which assigned by state province or city, have been completed or being carried out separately. 6 inventive patents authorized by state have been obtained. Tens of papers and works were published.

The school has practical teaching advantage and possesses its own practice factory. Metalworking training of turning, bench work, riveting, welding, milling, shaping and so on can be carried out. Independent identify qualification of state professional grade (include elementary, middle, senior) certification have been obtained. Great achievements have been made in the construction of specialty and science. 6 specialties which are mechanical design, manufacturing and automation, industry design (four year education for the above specialties), mechatronics, maintaining and management of equipments, repairing of automobile and moped (the school year is three for above specialties), mechanical and electrical engineering (the school year is four for adults who have finished two or three academic years and will continue to study one more year) have been set up. Multi-discipline style of computer aided design, mechatronics, modern manufacturing technology, mechanical and electrical control technology, mechatronic-hydraulic technology, application of industry computers, modern design methods have been formed.

Introduction of specialties

1. Mechanical design manufacturing and automation (bachelor's degree)

This specialty is to train multi-disciplinary talents, who have the theoretical basis of the machine designing and manufacturing, modern mechanical engineering theory, skill and quality of modern mechanical engineering. The students will have the ability of engaging in application of the advanced engineering technology, Such as the design and manufacture of mechatronics products, the search of application, the development of science and technology, the application and control of computer, and business management etc.

Main courses: Theoretical mechanics, Material mechanics, Computer-aid design, Mechanical design, Foundation of mechanical manufacturing, Principle and application of computer, Foundation of mechanical engineering control, Computer language and programming, Hydraulic transmission and control, Numerical control machine technology and programming.

2. Industrial Design (bachelor's degree)

The graduate from this specialty will be a advanced inter-disciplinary talent with the ability of drawing, color scheme, using computer to design and being engaged in the designing of enterprise image, product mould-making.

Main courses: Mechanical drawing, Line drawing, Color, AutoCAD, PowerPoint, Photoshop, 3Dmax, Industry design, and Product design.

Experiment and practice conditions

Laboratory: We possess Mechanical parts laboratory, Tolerance laboratory, Metallography laboratory, N.C. Hydraulic pressure laboratory, CAD laboratory, Model laboratory, etc.

Mechanical principle and parts laboratory in which we can carry out the

following experiments: Mapping sketch of motion mechanism, principle of gear's contour, measurement of parameters of cylinder gear.

Tolerance laboratory in which we can carry out the following experiments: internal and external diameter, angle error, and the error of the gear's length, radial error of gear, pitch error of gear.

Metallography laboratory in which we can observe the texture of metallography, measure the hardness of metal material.

N.C. laboratory in which we can carry on N.C. metal cutting programming and operation.

Hydraulic laboratory in which we can test the performance of hydraulic pump and valve, and also we can carry out the experiment of hydraulic circle.

CAD laboratory in which there are forty computers, one set of plotter, one suit of teaching software (SOLID EDGE) and so on. This laboratory can hold forty students to operate computer and accept long-distance teaching.

Model laboratory in which there are some teaching models, mould plate and some meters, which can be used to inspect the state of the instrument and diagnose breakdowns.

We have a practice plant in which there are four shops and we can appraise primary, intermediate and advanced professional technology skills.

1. Machining workshop in which we can carry out turning, milling and drilling technical ability training.

2. Benchwork workshop in which fifty students can take the courses of benchwork training.

3. Welding works in which twenty-four students can proceed weld operating

training.

4. Maintaining and dismounting workshop in which forty-two students can proceed maintaining and dismounting training and appraise the technological ability of maintenance.

Attachment: cooperation intention

Cooperation Intention

According to the specialty, specialized training object, specialized course design and the present teaching condition, and in line with understanding each other, communicating with each other and learning from each other, we would like to cooperate in the direction of exchanging teachers and students.

1. Dispatching teachers to mutual universities, propelling exchanging of teaching

1.1 Teachers from Panzhihua University

Teachers and specialties:

One associate professor with the specialty of machinery design, manufacture and Automation

One associate professor with the specialty of mechanical engineering

One lecturer majoring in Mechatronics

One assistant professor majoring in apparatus management

The courses we will provide: Chinese, Drawing for engineering, Machine principle, Machine design, Theory mechanics, Material mechanics, OPT. Design for machinery, Management Science of equipment

1.2. Visiting teachers

Teachers and specialties:

A professional teacher of Machinery design, manufacture and automation

A professional teacher of Machine and electrical control engineering

A teacher of computer-aid design and control

A professional teacher of Mechanical engineering

1.3. Courses that we hope the visiting teachers to teach: Scientific and technical English, Drawing for engineering, CAD/CAM and secondary development, Modern manufacture technology, Modern engineering control technology, Machine automatic control.

2. Dispatching undergraduates to each other, promoting the communication of knowledge

2.1 Students from Panzhihua University

Major: Machine designing, manufacturing and automation

Grade: The third year

Completed Courses: Higher Mathematics, College physics, Basic knowledge of computer, Drawing for engineering, Engineering Mechanics, Theory Mechanics, Materials Mechanics, Basis of Machine Manufacturing, Engineering Materials, Electrical Engineering, Interchangeability and technical measuring.

Aims of education:

To grasp modern technologies of machine designing and manufacturing

To grasp technologies of machine measuring, machine controlling and automation

To be of capacities of CAD/CAM and re-exploiting

To be of designing and controlling abilities of computer I/O

2.2 The visiting students

(1). Specialty: Mechanical design manufacturing and automation, Mechanical Engineering.

(2). Grade: Junior.

(3). Completed courses: Advanced mathematics, College physics, Computer foundation, Mechanical drawing, Theory mechanics, Material mechanics, Foundation of manufacturing, Engineering material, Electrotechnics, Interchangeability and technical measuring.

(4). Aims of education:

- (a) Possessing the technique and manufacturing technique of modern machine design;
- (b) Knowing the mechanical and automation technique and means;
- (c) Having the ability of CAD/ CAM development;
- (d) With the ability of the technology of computer I/O and computer control.

Contact us:

Dean: Mr. Yao biqiang

Tel: 0086-812-337-1668

Vice dean: Mr. Wen Guang

Tel: 0086-812-337-0589

Vice dean: Ms. Li Zerong

Tel: 0086-812-337-0589