

## Bachelor program in Automation

### First year

First semester	Second semester
Higher mathematics I	Higher mathematics II
Basic of computer I	Physics I
Introduction of automation	Basic of computer II
Chemistry	Engineering cartography
Chemical experiment	
English language I	English language II
Physical culture I	Physical culture II
Moral culture for undergraduate	Basic knowledge of law
Mao Zedong Thought	Marxism philosophy
Chinese language and literature	

### Second year

Third semester	Fourth semester
Engineering mathematics	Probability and mathematical statistics
Physics II	Analog electronics technology
Theory of circuit	Digital electronics technology
Materials science	Electronic technology experiment
Software engineering	
Data construction	
Circuit experiment	
Physics experiment	
English language III	English language IV
Physical culture III	Physical culture IV
Economics principle	Deng Xiaoping theory

### Third year

Fifth semester	Sixth semester
Theory of electric motors and power drive	Signal processing technology
Principle of Microcomputer	Moving control system
Automatic control theory	Measuring technology and instrument
Power electronics technology	Opting courses I
Introduction of systemic engineering	
English language V	English language VI
Professional English I	Professional English II
Managing information system	

### Fourth year

Seventh semester	Eighth semester
Process control system	Graduation project
Introduction of power engineering	
Opting courses II	Opting courses III

### **Opting courses 1**

Application of single-chip computer
Assembler programming language
Computer interface techniques
Automatic regulators
Computer control system
Digital image processing

### **Opting courses 2**

Programmable Logical Controller system
Process analytic instrument
Design of intellective instrument
Adaptive control system
Optimum control
MATLAB
Digital signal processing
Application of multimedia techniques
Network techniques
Computer control techniques

### **Opting courses 3**

Fuzzy control techniques
Pattern recognition
Application of new control strategy

## Bachelor program in Electronic Information Engineering

### First year

First semester	Second semester
Higher mathematics I	Higher mathematics II
Basic of computer I	Physics I
Engineering cartography	Basic of computer II
English language I	English language II
Physical culture I	Physical culture II
Moral culture for undergraduate	Basic knowledge of law
Mao Zedong Thought	Marxism philosophy
Chinese language and literature	

### Second year

Third semester	Fourth semester
Engineering mathematics	Signal and system
Physics II	Analog electronics technology
Theory of circuit	Design of digital and logic circuit
Data construction	
Software engineering	
Physics experiment	
English language III	English language IV
Physical culture III	Physical culture IV
Economics principle	Deng Xiaoping theory

### Third year

Fifth semester	Sixth semester
Electromagnetics	Communication theory
Principle of Microcomputer	Information theory and coding techniques
Digital signal processing	Microwave techniques
Communication circuit	FPGA
Operating system	DSP
	Television principles
	Digital image processing
	Digital language processing
	CAA and CAD of electronic circuits
	Opting courses I

### Fourth year

Seventh semester	Eighth semester
MATLAB	Graduation project
Multimedia communication techniques	
Multimedia making techniques	
Digital VHF and UHF techniques	
Opting courses II	

### **Opting courses I**

Logics
Poetry of Chinese Tang and Song Dynasty
History of Chinese science and technology

### **Opting courses II**

Application of single-chip computer
Semiconductor elements
Data communication and computer

## **Cooperating plan**

Ever year, we will dispatch 2-3 seniors studying in Halmstard University. We will accept 2-3 juniors studying in School of Information and Electric Engineering of Panzhihua University.