

Mechanical Design, Manufacturing and Automation

(Program Code: 080202)

I. Program Objectives

The specialty educational aim is to adapt the needs of the development of modern mechanical engineering, help students to develop all-round morality, intellectuality and physical fitness, cultivate qualified persons with wide international perspective, good foundation of machinery design and manufacture theory and practical operation skills. After graduation, the students should be able to engage in machinery design and manufacturing relate work with intermediate abilities.

2. Requirements

Graduates should acquire the following knowledge and capabilities.

- 1) Graduates will have solid foundation on math, physics, chemistry, mechanics, and etc. They are able to use the basic Chinese to read Chinese books and magazines of their own specialty and have some skills such as listening, speaking, reading, writing and translation etc.
- 2) Graduates will master the basic theory, basic skills and professional knowledge, and get the primary ability to solve the machinery design and manufacturing problems with the fundamental theory and knowledge.
- 3) Graduates will get the abilities to engage in engineering practice including manufacturing, operating and maintenance of machinery, and have the ability of scientific research, organization and management.
- 4) Graduates will have the basic abilities of experimental measurement, calculation and expression, and master the basic methods of literature search..
- 5) Graduates will have the basic team cooperation ability, engineering consciousness, innovative consciousness and consciousness of lifelong learning and have certain international vision and cross-cultural communication skills.

3. Graduate Requirements and Program Credits

Classification		Credits	Hours	Note
Required	Theory	114	2016	Including 104 experiment hours and 24 on-line hours
	Experiment	4.5	80	
	Practice	30		
Graduate requirements	1. Students will graduate after they earn 148.5 credits required in the teaching program of their specialty , 10 credits required in the auxiliary teaching program and get HSK 4 certificate. 2. Engineering bachelor's degree will be conferred to the qualified students. 3. The students are required to write their graduation theses in English, and the abstracts should be in Chinese.			

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