《安全人机工程学》课程中英文简介

Safety Ergonomics

课程代码：080072A **Course Code：**080072A

课程名称：安全人机工程学 **Course Name：**Safety Ergonomics

学时：32 **Periods：**32

学分：2 **Credits：**2

考核方式：考试 **Assessment：**Exam

先修课程：概率论与数理统计 **Preparatory Courses：**Probability Theory

and Mathematics Statistics

《安全人机工程学》是为安全工程专业而开设的专业必修课程。通过本门课程的教学，使学生掌握运用人机工程学的原理和方法去解决人机结合面的安全问题，掌握人体的人机学参数、人的生理、心理及生物力学特性，了解安全人机功能匹配，掌握人机系统的安全设计与评价。

本课程是一门应用型的课程，它阐述了人、机械、环境三者之间的相互关系，探讨如何使机械、环境符合人的形态学、生理学、心理学方面的特性，使人-机械-环境相经协调，以求达到人的能力与作业活动要求相适应，创造舒适、高效、安全的劳动条件。

“Safety Ergonomics " is a major compulsory course of Safety Engineering. Through the learning of this course, the students master the principle and method of Ergonomics to solve the safety problem of man-machine interface, and master human ergonomics parameters, the person's physical, psychological and biomechanical characteristics, and understand the safe man-machine matching function, control of man-machine system safety design and evaluation.

This course is a practical course, it expounds the mutual relations among people, machine and environment, and discusses how to make the machine and environment conform to the characteristics of morphology, physiology and psychology, and makes a man - machine - environment coordination, in order to adapt the people's ability to the requirements activities and to create comfortable, efficient and safe working conditions.