《安全工程仿真实践》课程中英文简介

Computer Simulation of Safety Engineering

课程代码：080892B **Course Code：**080892B

课程名称：安全工程计算机仿真软件 **Course Name：**Computer Simulation of

Safety Engineering

学时：32 **Periods：**32

学分：2 **Credits：**2

考核方式：考查 **Assessment：**Test

先修课程：无 **Preparatory Courses：**None

《安全工程仿真实践》是将安全工程专业与计算机数值模拟技术相结合的一门安全工程专业课程。

通过本课程的教学，使学生掌握Pathfinder疏散仿真软件和Pyrosim火灾动力学仿真软件的基本操作流程和建模方法，掌握火灾中人员安全疏散的性能化分析方法，了解人员疏散理论和火灾燃烧基本规律。教学过程中，培养学生运用安全工程专业相关现代工具针对复杂工程问题可以合理选择工具或资源进行开发实施。

Computer simulation of safety engineering is a courses of safety engineering which is combined with safety engineering professional and computer numerical simulation technology.

After the course, students can master the basic operation and modeling methods of Pathfinder which is evacuation simulation software and Pyrosim which is fire dynamics simulation software, and grasp the performance analysis method of personnel evacuation in fire, and understand the basic theory of personnel evacuation and fire burning. In teaching process, students are trained to use safety engineering professional related to modern tools for complex engineering problems and choose reasonable tools or resources for development and implementation.