《科学计算方法》课程中英文简介

Scientific Calculation Method

课程代码：081592B **Course Code：**081592B

课程名称：科学计算方法 **Course Name：**Scientific Calculation Method

学时：32 **Periods：**32

学分：2 **Credits：**2

考核方式：考查 **Assessment：**Test

先修课程：高等数学 **Preparatory Courses：**Advanced Mathematics

《科学计算方法》是为工业工程专业而开设的课程。通过本门课程的教学，使学生毕业后能迅速适应社会各行业的管理决策工作；了解如何运用MATLAB从事各种科学计算工作的基本知识；探索它们在实际工作中的应用。教学过程中，着重培养具有较高的科学计算方法的专业实务技能，为学生进一步学习工业工程领域相关知识和以后从事服务业等其它管理工作打下必要的基础。

本课程是一门工业工程专业选修的课程，它阐述了如何运用MATLAB从事各种科学计算工作的基本知识，掌握MATLAB的基本编程方法。课程内容包括：MATLAB基础知识、MATLAB基本运算、MATLAB程序设计、MATLAB图形功能、数据库基本知识以及与MATLAB的连接、科学计算综合实例。

"Production and Planning Control" is a course of IE major. On the completion of this course, students will be able to cultivate good professional skills of decision making in order to be better prepared for their future career of management after they graduate; understand the essential rules of scientific calculation method; explore their application in engineering practice. This course also prepares students for their further study and their career of service industry and management after graduation.

This course is a subject selected course of IE students. The purpose of this course is to introduce the basic concept, theory, method and programming tools of scientific calculation method. The content of this course includes basic concept of MATLAB, basic calculation of MATLAB, program design of MATLAB, graph function of MATLAB, basic knowledge of database, case study of scientific calculation.