《数据分析理论与实践（双语）》课程中英文简介

Theory and Practice of Data Analysis (Bilingual)

课程代码：071403B **Course Code：**071403B

课程名称：数据分析理论与实践(双语) **Course Name：**Theory and Practice of Data

Analysis**(**Bilingual**)**

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考试 **Assessment：**Examination

先修课程：概率论与数理统计、数据结构 **Preparatory Courses：**Probability Theory and

Mathematics Statistics, Data Structure

《数据分析理论与实践（双语）》是为适应信息时代快速增长的业务数据及基于数据的科学决策的要求而开设的课程，是信息管理与信息系统专业的学科基础课程。通过本门课程的教学，使学生对数据分析相关理论、方法和技术有较完整的认识，了解数据科学相关应用和发展趋势，并熟练掌握一种常用数据分析工具如Python及相关数据分析模块，能独立有效地根据业务和数据选择合适的工具技术，对商业数据加工处理和科学建模。教学过程中，重视学生对相关理论的系统学习，又强调培养学生发现问题、分析问题和解决问题的实践能力，特别是强化Python语言基础编程能力和相关数据分析模块的开发使用，为学生进一步学习其他数据分析相关课程如机器学习与量化投资等打下坚实的理论和技术基础。

"Theory and Practice of Data Analysis (Bilingual)" is a basic course for the major of information management and information system, which is designed to meet the requirements of the rapidly growing business data and the scientific decision-making based on data in the information age. Through teaching of the course, enable students to have a complete understanding of theories, methods and techniques related to the data analysis, know knowledge application and developing trend of relevant data science and master a kind of commonly used data analysis tools such as Python and related data analysis module. This course can enable students independently effectively choose the right tools for business data processing and modeling of science according to the business and technology. Teaching process, attaches great importance to the students to study on related theory system, and emphasis on training students to find the problem, analyze and solve problems of practice ability, especially to strengthen the Python language based programming ability and the development of related data analysis module is used, and lay a solid theoretical and technical basis for students to further study other related courses such as machine learning and data analysis of quantitative investment.