《数据库原理与应用》课程中英文简介

Principles and Applications of Database

课程代码：070134A **Course Code：**070134A

课程名称：数据库原理与应用 **Course Name：**Principles and Applications of Database

学时：64 **Periods：**64

学分：4 **Credits：**4

考核方式：考试 **Assessment：**Examination

先修课程：离散数学 **Preparatory Courses：**Discrete Mathematics

程序设计基础 Fundamental of Computer Programming

《数据库原理与应用》作为研究数据库技术的基本理论已经成为学习信息技术的重要专业课程，在高等教育的有关专业如计算机科学与技术、数据科学与大数据技术等都开设了相关的课程。通过本课程的学习，使学生掌握数据库系统的基本理论和方法，掌握数据库应用系统的设计开发技能，灵活掌握数据库系统原理在解决实际应用问题中的基本方法和应用技巧，活学活用所学理论知识；了解数据库领域的核心技术和最新研究进展,培养学生从应用中发现问题、提出问题、分析问题和解决问题的能力，培养学生的综合素质、创新能力和团队协作精神,为今后的数据库技术的研究和应用打下坚实的基础。

本课程是计算机软件学科的一个重要分支，它研究如何存储、使用和管理数据。本课程所涉及的内容不仅是这些相关专业必备的基础知识，也是从事信息产业工作人员的必备知识与技能，同时也是进一步深入研究数据管理与应用的出发点。

"Principles and Applications of Database" is an important professional course of information technology as the basic theory of database technology, so the relevant majors in the higher education such as Computer Science and Technology, Data Science and Big Data Technology, opened the related curriculum. Through learning this course, students will master the basic theory and methods of database system, design and development skills of database application system, the basic methods and skills in solving the practical problems applying the principle of database system, so as to Using the theory of knowledge. Through learning this course, students should know the core technology and the latest research progress in database field, develop their abilities of discovering problems, proposed questions, analysis problem and solving problem from the application, and culture their comprehensive quality, innovation ability and the team cooperation spirit. Therefore, a solid foundation for the future research and application of database technology will be laid in studying the course.

This course is an important branch of computer software science, it studies how to storage, usage and management of data. The contents of this course is not only the basic knowledge of the relevant professional necessary, but also the necessary knowledge and skills in the information industry staff, and is also the starting point for further research on the data management and its application.