《Python与城市大数据分析》课程中英文简介

Urban big data analysis with Python

课程代码： **Course Code:**

课程名称：Python与城市大数据分析 **Course Name:** Urban big data analysis with Python

学时：32 **Periods：**32

学分：2 **Credits：**2

考核方式：考查 **Assessment：**Assignment

先修课程：计算机应用 **Preparatory Courses：**Computer application

《Python与城市大数据分析》是为了培养适应大数据时代发展需要的城市管理专业人才而开设的课程。通过本课程学习，使学生了解大数据的采集、传输、处理、分析和应用的完整相关技术，掌握Python的基础语言知识和大数据分析方法，探索大数据分析在城市管理领域的应用。教学过程中，为学生进一步学习和掌握城市大数据分析方法，结合上机实验的实践环节，培养学生实践动手能力。

本课程是一门培养学生掌握相关理论与技术方法，能够独立进行城市大数据分析和应用的实践性较强的课程。它阐述了城市大数据分析的相关原理和方法，Python编程语言的基本语法和相关工具，培养学生针对大数据能够进行完整的数据采集、处理、分析和应用开发的能力。

This course is aimed at training urban management professionals to meet the development needs in the era of big data. Through this course, students can understand technologies related to the collection, transmission, processing, analysis and application of big data, master basic Python language and big data analysis methods, and explore the application of big data analysis in the field of urban management. In course of teaching, students can further learn and master urban big data analysis methods. And with the practical links of computer experiments, it will cultivate students' practical and hands-on ability.

This course is a practical course that cultivates students to master relevant theories and technical methods and be able to conduct urban big data analysis independently. It elaborates the relevant principles and methods of urban big data analysis, the basic grammar and related tools of Python programming language, and enables students to carry out big data collection, processing, analysis and application development.