《计算机网络技术与应用》课程中英文简介

Techniques and Applications of Computer Networking

课程代码：2121123A **Course Code：**2121123A

课程名称：计算机网络技术与应用 **Course Name：**Techniques and Applications of

Computer Networking

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考试 **Assessment：**Examination

先修课程：程序设计基础与应用、面向 **Preparatory Courses：**Fundamentals of Programming

对象程序设计 Design and Applications, Object-Oriented

Programming Design

《计算机网络技术与应用》是为信息管理与信息系统专业本科生开设的课程。通过本门课程的教学，使学生掌握计算机网络的基本概念、技术、方法和工具，了解计算机网络技术的最新发展。教学过程中，主要内容包括计算机网络概论、TCP/IP协议体系结构、因特网中使用的协议的基本原理、局域网和广域网应用技术、网络互联设备、计算机网络管理与安全、数据通信基础知识等，为学生进一步学习《数据库原理与应用》《Web前端开发技术》《Web应用系统开发实践》和《信息安全技术与应用》课程奠定基础。

本课程是一门学科基础课性质的课程，它阐述了计算机网络基本概念和核心理论、TCP/IP协议体系的层次划分、TCP/IP分层中每一层使用的主要协议的原理和应用、计算机网络安全的基本知识。

"Techniques and Applications of Computer Networking" is a course for undergraduate students with the major of Information Management and Information System. Through the course, the students can master the basic concepts, techniques, methods and tools of computer networks, and understand the updates of computer networks technology. In the course of teaching, the main content of teaching including introduction to computer networks, TCP/IP protocol suite, usual protocols applied in the Internet, application technology in LANs and WANs, networking devices, computer networks management and security, data communication basics and so on. It can build a solid foundation for the following courses of “Principles and Applications of Database”, “Development Techniques for Front-end of Website”, “Development Practice of Web Application System” and “Information Security Technology and Application”.

This course is a subject of basic course nature, It elaborates the basic concept and core theory of computer networks, the hierarchy division of TCP/IP protocol stack, the principle and application of the main protocols used in each layer of TCP/IP hierarchy, and the basic knowledge of computer networks security.