《计算机网络技术与应用》课程中英文简介

Techniques and Applications of Computer Networks

课程代码：070073B **Course Code：**070073B

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

Computer Networks

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考查 **Assessment：**Assignment

先修课程：数据结构、程序设计基础与应用 **Preparatory Courses：**Data Structure、

Fundamentals of Program Design and

Applications

《计算机网络技术与应用》是为信息管理与信息系统和计算机科学与技术本科生而开设的课程。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《网络编程》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协议族的层次划分、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。

" Computer Network Technology and Application " is a course for undergraduate students with the major of Information Management and Information System and Computer Science and Technology. Through the course, the students can master the basic concepts, techniques, methods and tools of computer network, and understand the latest development of computer network technology. In the course of teaching, the main content of teaching including introduction to computer networks, TCP/IP protocol suite, protocols applied in the Internet, application technology in LANs and WANs, networking devices, computer network management and security, data communication basics and so on, it can build a solid foundation for the following courses of “Data Structure” and “Fundamentals of Program Design and Applications”.

This course is a subject of basic course nature, It elaborates the basic concept and core theory of computer network, 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 network security.