《互联网开发-Web框架与应用》课程中英文简介

Developing for Website (Framework and Application of Website)

课程代码：071273B **Course Code：**071273B

课程名称：互联网开发-Web框架与应用 **Course Name：**Developing for Website

(Framework and Application of Website)

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考查 **Assessment：**Check

先修课程： **Preparatory Courses：**

互联网开发-网页设计基础 Developing for Website

(Fundamentals of Website Design)

互联网开发-Web前端编程 Developing for Website

(Programming for Front-end of Website)

《互联网开发-Web框架与应用》是为计算机科学与技术专业本科生开设的专业提升课。通过本门课程的教学，使学生了解主要的Web前端开发框架；掌握Vue.js的基础知识、概念和使用方法；理解Vue生命周期、事件绑定、值绑定等概念；能够使用循环和条件语句；能够使用组件和Vue.js的脚手架工具；能够利用Vue.js进行带有路由和状态管理的Web应用开发；并探索Web前端编程的乐趣。教学过程中，通过理论讲解和编程实践等手段，使学生能够深入理解和运用Vue.js前端框架，并为学生进一步学习后续课程，以及今后的学习与工作打好基础。

本课程是一门理论+实践的课程，它阐述了（1）Vue.js和MVVM的基本概念；（2）Vue实例和Vue生命周期；（3）数据绑定和双向数据绑定；（4）过滤器和计算属性；（5）Vue.js中的事件、条件指令和循环；（6）表单和值绑定；（7）Vue组件和单文件组件的使用；（8）Vue-CLI的使用；（9）Vue路由和状态管理。在实践上主要涉及运用Vue的基础和高级知识进行编程开发、Vue脚手架工具的使用和综合使用Vue以及其他框架进行编程开发等。

"Developing for Website (Framework and Application of Website)" is a professional enhancement course designed for undergraduate students majoring in Computer Science and Technology. Through the teaching of this course, students will: Gain an understanding of major web frontend development frameworks; Master the fundamentals, concepts, and usage of Vue.js; Comprehend Vue lifecycle, event binding, and value binding concepts; Be capable of using loops and conditional statements; Learn how to use components and Vue.js scaffolding tools; Develop web applications with routing and state management using Vue.js; Explore the joys of web frontend programming. Through a combination of theoretical explanations and programming practices, students will gain a deeper understanding and proficiency in Vue.js frontend framework, laying a solid foundation for their further study and future learning and work.

This course is a combination of theory and practice, covering the following topics: (1) Basic concepts of Vue.js and MVVM; (2) Vue instances and Vue lifecycle; (3) Data binding and two-way data binding; (4) Filters and computed properties; (5) Events, conditional directives, and loops in Vue.js; ()6 Forms and value binding; (7) Usage of Vue components and single file components; (8) Utilization of Vue-CLI; (9) Vue routing and state management. In terms of practical applications, students will mainly engage in programming development using both basic and advanced Vue.js knowledge, utilization of Vue scaffolding tools, and comprehensive programming development using Vue.js and other frameworks.