



VIETNAM NATIONAL UNIVERSITY OF HO CHI MINH CITY
UNIVERSITY OF NATURAL SCIENCES
FACULTY OF INFORMATION TECHNOLOGY

COURSE SYLLABUS

Course Code:	TH505
Title:	Application Programming in Networking Environments
Credits:	4
Workload:	Lecture hours: 3 periods * 15 weeks = 45 periods Laboratory hours: 2 periods * 15 weeks = 30 periods Preparative hours: 3 periods * 15 weeks = 45 periods
Prerequisites:	TH111 – Advanced Operating Systems TH501 – Advanced Computer Networks

Course Objectives:

This subject is about methods for building end-user applications in networking environments and for network programming with Java. Chapter 1 introduces about World Wide Web. Chapter 2 and Chapter 3 present Intranet design and security in an Intranet. Chapter 4 and Chapter 5 introduce Java programming, showing how to develop network applications and applets with Java.

Main Text: N/A

References:

- *Building an Intranet*
Tim Evans._USA: Sams.net, 1996.
- *HTML & CGI Unleashed*
John December & Mark Ginsburg._USA: Sams.net, 1996.
- *Intranet Bible*
Ed Tittel & James M. Stewart._USA: IDG Books Worldwide, 1997.

Course Outline:

Chapter 1 : Introduction to the World Wide Web

1. Introducing WWW
2. What is a Web Server? Web Browser?
3. Development history of Web Servers và Web Browsers
4. Structure of the HTML language
5. HTML tags and forms
6. TCP/IP protocol

Chapter 2 : Intranet Design

1. Requirement analysis and technical decision
2. Intranet services
3. Models of Intranet
4. Tools
5. Building applications in economics and science
6. Database accessing via Web
7. Setting up a Web server

Chapter 3 : Security in Intranet

1. Security requirements in Intranet
2. Security-affecting factors on the Web
3. Resource protection techniques on the Web
4. Data encryption methods in Intranet
5. Steps to build a safe Intranet

Chapter 4 : Programming with Java

1. Main characteristics of Java
2. Java's platform-independence
3. Syntax and structure in Java
4. Keywords, command, and main methods in Java

Chapter 5 : Application development in Intranet with Java

1. Applications and Applets in Java
2. Java application development tools
3. Introduction to JDBC
4. Some examples of applications using Java

Grading

Final exam :

Assignments: