南台科技大學 103 學年度第 1 學期課程資訊		
課程名稱	Unix Script 程式設計實務	
課程編碼	30D19801	
系所代碼	03	
開課班級	四技晶片二甲	
開課教師	楊榮林	
學分	2.0	
時數	3	
上課節次地點	一 6 7 8 教室 P203	
必選修	選修	
課程概述	Course content covers UNIX shell as a programming language, emphasizes on a	
	mix of lectures and hands-on labs, and provides a firm and practical knowledge of	
	creating UNIX shell scripts. Upon completion, students will be able to start using	
	Unix shell and to create and execute shell scripts. This course will cover	
	commonly used Unix/Linux commands, Csh/Tcsh/Bash script languages, Sed,	
	Awk, and Expect. In order to complete this course successfully, students should be	
	prepared to spend a minimum of five hours per week on the computer in addition	
	to regular class attendance and active in-class participation. After each lecture,	
	students will be assigned homework assignment based on the lecture material	
課程目標	The goals of this class are to enable students to:2	
	Learn what kinds of problems are suited to shell scripts ²	
	Review the most commonly used Unix commands that are useful in shell scripts. ²	
	Write simple shell scripts using the Csh/Tcsh and Bash shells ²	
	Utilize powerful Unix tools like Sed/Awk and Expect in shell scripts	
課程大綱	1.介紹 Unix/Linux ²	
	Unix 系列的作業系統簡介²	
	Unix/Linux 常見命令及檔案處理²	
	Unix/Linux 的主要特色及概要	
	2.Unix/Linux 的命令和工具 ²	
	常見的命令使用教學 ²	
	檔案與目錄的安全性 ²	
	Linux 搜尋工具 ²	
	文件編輯工具2	
	工作排程2	
	系統管理命令 ²	
	程序管理命令	
	3.Bourne-Again shell (bash) ²	
	Bash shell 的特色 ²	

	Bash 環境設定檔 ²
	Bash shell 變數²
	算術運算 ²
	迴圈結構 ²
	條件結構 ²
	Shell 的函式 ²
	Bash shell 內建命令 ²
	命令列選項
	4.C-Shell ²
	C-Shell 特色 ²
	C-Shell 環境設定檔 ²
	C-Shell 特殊字元 ²
	C-Shell 系統變數 ²
	輸入/輸出導向 ²
	管線 ²
	算術,迴圈和條件結構 ²
	執行程管理 ²
	Shell 命令列選項
	5.文件處理功能 ²
	正規表示法2
	Sed 串流編輯 ²
	Awk 文字處理語言 6.Unix 自動化和測試工具 ²
	Tcl ²
	Expect
	7.期末專案
英文大綱	1. Introduction to Unix/Linux ²
	Introduction to the Unix-like operating system ²
	Unix/Linux file management and common utilities ²
	Major Unix/Linux features and structural overview
	2. Unix/Linux commands/tools ²
	Directory and file commands ²
	File and directory security ²
	Linux search tools ²
	Text editors ²
	Scheduling jobs ²
	Linux administrator commands ²
	Processor management commands
	3. Bourne-Again shell (bash) ²
	Features of Bash shell ²
	Bash startup files ²

	Bash shell variables ²
	Arithmetic operations ²
	Looping constructs for iterative action ²
	Conditional constructs for conditional execution ²
	Shell functions ²
	Bash shell built-in commands ²
	Command Line Options
	4. C-Shell (csh/tcsh) ²
	Features of C shell ²
	C shell startup files ²
	Special characters in C Shell ²
	Built-in shell variables ²
	Input / Output redirection ²
	Pipes ²
	Arithmetic, looping, and conditional constructs ²
	Job control ²
	Shell script arguments
	5. Text-processing utilities ²
	Regular expressions ²
	Sed stream editor ²
	Awk text-processing language
	6. Unix automation and testing tool ²
	Tcl ²
	Expect
	7. Final project (system administration or creative projects using Bash/Csh/Tcsh
	wiht Sed/Awk and/or Expect)
教學方式	
評量方法	
指定用書	
参考書籍	
先修科目	"Unix/Linux Operating System" with passed grade or a working knowledge of at
	least one modern computer operating system
教學資源	
注意事項	
全程外語授課	0
授課語言 1	華語
授課語言 2	
輔導考照 1	
輔導考照 2	
110 19 9 7111	