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②國玄東華大學

教學計劃表 Syllabus

		教与	产計劃表	Syll	abus				
	名稱(中文) me in Chinese	程式語言與編譯	星器	學年/學期 Academic Year/Sem	nester	112/2			
	名稱(英文) ne in English	Programming Languages and Compilers							
	目代碼 rse Code	CSIEB0480	資	資訊工程學系					
	修別 Type	學程 Program							
	課教師 tructor	/雍忠							
先修課程 Prerequisite									
課程描述 Course Description									
This course introduces the basic concepts of programming languages and compilers, including the issues in syntax and semantics of programming languages, the process of programs, and the principles of compilers.									
課程目標 Course Objectives									
This course introduces the basic concepts of programming languages and compilers, including the issues in syntax and semantics of programming languages, the process of programs, and the principles of compilers.									
系專業能力 Basic Learning Outcomes							課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 資訊專	業終身學習能力Ab	ility of lifetime	e learning in i	nformation	profession		•		
	證資訊科學能力Ab mation science fie		e experimental 1	result val	idation in		•		
C 資訊工具整合運用能力Ability of integrated applications of information technology							•		
1)	統應用設計開發能,	カAbility of info	ormation applica	ation syste	em design and		•		
development E 團隊合作溝通協調能力Ability of teamwork, communication, and coordination							\bigcirc		
F 資通訊科技問題解決能力Ability of problem solving regarding information and communication technology							\bigcirc		
G B F F F F F F F F F F F F F F F F F F							0		
H							0		
圖示說明∐	lustration :	● 高度相關 H:	ighly correla	ited 〇中	度相關 Moderatel	y correl	ated		
		授課進	度 表 Teaching	g Schedule	e & Content				
週次Week	型次Week 內容 Subject/Topics						備註Remarks		
1	1 Course Overview								
2 Introduction, A Simple Compiler									
O Caranian									

3

Scanning

4	Grammars and Top-Down Parsing						
5	Programming Assignment #1						
6	Bottom-Up Parsing						
7	(Ching Ming Festival)						
8	Programming Assignment #1 (bonus due)						
9	LR Parsing						
10	Midterm Exam						
11	Introduction to programming Languages						
12	Evolution of programming Languages						
13	Names, Bindings, and Scopes						
14	Data Types						
15	Programming Assignment #2 (#1 due)						
16	Final Exam						
17	Programming Assignment #2 (bonus due)						
18	Late Hand-ins (#2 due)						
	教學策略 Teaching Strategies						
✓ 課堂講	授 Lecture 分組討論Group Discussion 參觀實習 Field Trip						
 其他Mis	scellaneous:						
	教學創新自評 Teaching Self-Evaluation						
創新教學(Innovative Teaching)						
問題導	向學習(PBL)						
■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■							
社會責任(Social Responsibility)							
在地實踐Community Practice							
跨域合作(Transdisciplinary Projects)							
■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching							
──業師合授 Courses Co-taught with Industry Practitioners							
其它 othe	r:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	20%	~							
期中考成績 Midterm Exam	25%	>							
期末考成績 Final Exam	35%	~							
作業成績 Homework and/or Assignments	20%		~						
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

(none)

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

(Textbook 1) Crafting a Compiler, by C. N. Fischer, R. K. Cytron, and R. J. LeBlanc, Jr., Pearson Press, 2010.

(Textbook 2) Concepts of Programming Languages, 12th Edition, R. W. Sebesta, Pearson Education Ltd., 2019.

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

www.elearn.ndhu.edu.tw

其他補充說明(Supplemental instructions)

(none)