



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	軟體工程		學年/學期 Academic Year/Semester		114/2			
課程名稱(英文) Course Name in English	Software Engineering							
科目代碼 Course Code	CSIEB0430	系級 Department & Year	學三	開課單位 Course-Offering Department	資訊工程學系			
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0					
授課教師 Instructor	/高韓英							
先修課程 Prerequisite								

課程描述 Course Description

Help students build the essential knowledge and skills in software engineering

課程目標 Course Objectives

Study the concepts, methodology and key processes of software engineering.

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content

週次 Week	內容 Subject/Topics	備註 Remarks
1	1. Introduction	2/23
2	2. Software processes	3/2
3	3. Agile Software Development	3/9
4	4. Requirements engineering	3/16
5	5. System modeling	3/23
6	6. Architectural design	3/30
7	Break 放假	4/6*
8	7. Design and Implementation	4/13
9	期中考試週 Midterm Exam	4/20
10	8. Software testing	4/27
11	9. Software Evolution	5/4
12	10. Dependable Systems/11. Reliability engineering	5/11
13	12. Safety/13. Security Engineering	5/18
14	Topics on Advanced Software Engineering	5/25
15	Topics on Advanced Software Engineering	6/1
16	Term presentation	6/8

17	Term presentation	6/15
18	Break 放假	6/22*

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Miscellaneous:

教 學 創 新 自 評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

問題導向學習 (PBL) 團體合作學習 (TBL) 解決導向學習 (SBL)

翻轉教室 Flipped Classroom 磨課師 Moocs

社會責任 (Social Responsibility)

在地實踐 Community Practice 產學合作 Industry-Academia Cooperation

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 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments						
		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
平時成績(含出缺席) General Performance (Attendance Record)	10%							
期中考成績 Midterm Exam	30%	✓	✓	✓	✓			
期末考成績 Final Exam	30%	✓	✓	✓	✓			
作業成績 Homework and/or Assignments	30%	✓	✓		✓			
其他 Miscellaneous (_____)								

評量方式補充說明 Grading & Assessments Supplemental instructions

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:

Ian Sommerville, Software Engineering, 10th edition.

中文版：陳玄玲編譯，軟體工程—軟體開發技術與軟體專案管理，高立。

李允中，軟體工程，國立臺灣大學出版中心。

Reference:

SATZINGER & JACKSON & BURO, Systems Analysis and Design in a Changing World 7/E, 2016

Selected materials on Software Engineering, etc.

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.)

其他補充說明 (Supplemental instructions)