



課 綱 Course Outline  
資訊工程學系國際組

中文課程名稱 Course Name in Chinese	程式設計能力檢定				
英文課程名稱 Course Name in English	Programming Ability Certification				
科目代碼 Course Code	CSIEB0470	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	0.0	時 數 Hour(s)	0.0
先修課程 Prerequisite					
課程目標 Course Objectives					
透過外部考試，客觀檢測學生程式能力 Objectively test students' programming abilities through external exams.					
系教育目標 Dept.' s Education Objectives					
1	具備學科知識，養成專業技能 Acquire academic knowledge, develop professional skills				
2	學習創新思考，分析解決問題 Inspire innovative thinking, increase analytical problem solving ability				
3	培養團隊精神，學習溝通合作 Promote teamwork spirit, encourage coordination and cooperation				
4	提昇專業倫理，承擔社會責任 Sublimate professional ethics, engage social responsibility				
5	涵育人文素養，開拓國際視野 Cultivate humanities, broaden global perspectives				
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 Ability of lifetime learning in information profession			●	
B	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field			●	

C	資訊工具整合運用能力 Ability of integrated applications of information technology	●
D	資訊系統應用設計開發能力 Ability of information application system design and development	●
E	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination	
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technology	●
G	瞭解資訊科技多元影響能力 Ability to understand information technology' s multiple influences	○
H	肩負資訊人社會責任能力 Ability of bearing the social responsibilities being among information professionals	○

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

#### 課程大綱

#### Course Outline

1. 運用基礎數學、科學知識 2. 基礎程式設計能力 3. 設計完整系統/運算思維 4. 解決工程問題的能力  
1. Application of basic mathematical and scientific knowledge 2. Basic programming skills 3. Ability to design complete systems/computational thinking 4. Ability to solve engineering problems

資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

#### 課程要求和教學方式之建議

#### Course Requirements and Suggested Teaching Methods

學生必須於畢業前選修此課程且取得成績，若本課程成績不及格，不影響畢業。

Students must take this course and obtain grades before graduation. Failure to pass this course will not affect graduation.

#### 其他

#### Miscellaneous