

朝陽科技大學 095學年度第1學期教學大綱
Pervasive Computing 普及計算

當期課號	7385	Course Number	7385
授課教師	廖琬洲	Instructor	LIAO,HSIEN CHOU
中文課名	普及計算	Course Name	Pervasive Computing
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	<p>這門課介紹普及計算的相關概念，主題包含：定位與追蹤技術、位置認知計算、使用者界面與互動模型、情境認知計算、智慧型裝置與環境、程式開發架構。在完成這門課之後，學生將可以學習到下面幾點：1.瞭解普及計算的願景、原理與系統；2.瞭解普及計算的核心概念；3設計、開發與評估普及計算應用程式。</p>	Objectives	<p>This course gives an introduction to the concepts of pervasive computing. Topics to be covered are: positioning and tracking technologies, location-aware computing, user interface and interaction models, context-aware computing, smart device and intelligent environment, programming paradigms for pervasive computing. The students will realize the following basics after finishing this course: 1. realize the vision, principles, systems of pervasive computing; 2. realize the core concept of pervasive computing; 3. design, develop, and evaluate pervasive computing applications.</p>
教材	Research papers from IEL,ACM,SDOS	Teaching Materials	Research papers from IEL,ACM,SDOS
成績評量方式	<p>1. Oral presentation: 20% 2. Final report: 25% 3. Final project: 25% 4. Class participation: 30%</p>	Grading	<p>1. Oral presentation: 20% 2. Final report: 25% 3. Final project: 25% 4. Class participation: 30%</p>
教師網頁	ftp://seafood.csie.cyut.edu.tw		
教學內容	<p>Pervasive computing is an emergent research domain. Its vision is that anyone can access anything via any device at anytime, anywhere. The materials of this course will include all the aspects of pervasive computing, including:</p> <ul style="list-style-type: none"> - Positioning and tracking technology - Location-aware computing - User interfaces and interaction models - Sensor and RFID in pervasive systems - Context-aware computing - Wearable computing - Smart devices and intelligent environments - Middleware services and agent technologies - Programming paradigms for pervasive systems - Pervasive computing and comm. architecture - Trust, security and privacy issues in pervasive computing 	Syllabus	<p>Pervasive computing is an emergent research domain. Its vision is that anyone can access anything via any device at anytime, anywhere. The materials of this course will include all the aspects of pervasive computing, including:</p> <ul style="list-style-type: none"> - Positioning and tracking technology - Location-aware computing - User interfaces and interaction models - Sensor and RFID in pervasive systems - Context-aware computing - Wearable computing - Smart devices and intelligent environments - Middleware services and agent technologies - Programming paradigms for pervasive systems - Pervasive computing and comm. architecture - Trust, security and privacy issues in pervasive computing

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