Chinese Name of Subject	English Name of Subject	Compulsory or Elective	Credit	Hour	Course Level	Note		
Specialized (	Courses (Com				ostone Project Mandator			
1. Compulsory 58 credits								
微積分(上)	Calculus I	Compulsory	3	3	Freshman First Semester			
微積分(下)	Calculus II	Compulsory	3	3	Freshman Second Semester			
計算機程式設計	Computer Programming	Compulsory	3	3	Freshman First Semester			
計算機概論	Introduction to Computer Science	Compulsory	3	3	Freshman First Semester			
數位邏輯設計	Digital Logic Design	Compulsory	3	3	Freshman First Semester			
數位邏輯設計 實驗	Digital Logic Design LAB	Compulsory	2	3	Freshman Second Semester			
物件導向程式 設計	Object- Oriented Programming	Compulsory	3	3	Freshman Second Semester			
離散數學	Discrete Mathematics	Compulsory	3	3	Freshman Second Semester			
應用電子學	Applied Electronics (I)	Compulsory	3	3	Sophomore First Semester			
視窗程式設計	Windows Programming	Compulsory	3	3	Sophomore First Semester			
資料結構	Data Structure	Compulsory	3	3	Sophomore First Semester			
線性代數	Linear Algebra	Compulsory	3	3	Sophomore First Semester			
計算機網路	Computer Networks	Compulsory	3	3	Sophomore First Semester			
應用電子學	Applied Electronics (II)	Compulsory	3	3	Sophomore Second Semester			
應用電子學實 驗	Applied Electronics Lab.	Compulsory	1	2	Sophomore Second Semester			
演算法	Algorithm	Compulsory	3	3	Sophomore Second Semester			
計算機組織	Computer Organization	Compulsory	3	3	Sophomore Second Semester			
計算機組織及微算機實驗	Computer Organization and Microcomputer LAB	Compulsory	1	2	Sophomore Second Semester			
網路程式設計	Network Programming	Compulsory	3	3	Sophomore Second Semester			
組合語言與系 統程式	Assembly Language and	Compulsory	3	3	Junior First Semester			

	System Programs							
作業系統	Operating	Compulsory	3	3	Junior Second Semester			
0 I 0 !	System	2 114 (4	7 4		· 43/ 1.4 2 1			
2. Issue-Oriented Course 3 credits (Capstone Project Mandatory 3 credits)								
網路與通訊專題(一)	Special Topic Research on Networks and Communicatio	Elective	1	2	Junior First Semester			
計算機系統專題(一)	ns (I) Special Topic Research on Computer Systems (I)	Elective	1	2	Junior First Semester			
智慧型科技專題(一)	Special Topic Research on Intelligent Technology (I)	Elective	1	2	Junior First Semester			
網路與通訊專題(二)	Special Topic Research on Networks and Communicatio ns (II)	Elective	1	2	Junior Second Semester			
計算機系統專題(二)	Special Topic Research on Computer Systems (II)	Elective	1	2	Junior Second Semester			
智慧型科技專題(二)	Special Topic Research on Intelligent Technology (II)	Elective	1	2	Junior Second Semester			
網路與通訊專題(三)	Special Topic Research on Networks and Communicatio ns (III)	Elective	1	2	Senior First Semester			
計算機系統專題(三)	Special Topic Research on Computer Systems (III)	Elective	1	2	Senior First Semester			
智慧型科技專題(三)	Special Topic Research on Intelligent Technology (III)	Elective	1	2	Senior First Semester			
3. Advanced	\ /	credits (3 M	<b>lodule</b>	es, Min	nimum 6 credits per Moo	dule)		
Module A - N	Networking and	d Multimed	ia					
多媒體概論	Introduction to Multimedia	Elective	3	3	Sophomore Year			
機率	Probability	Elective	3	3	Sophomore Year			
網路協定	Network Protocols	Elective	3	3	Junior Year	Course Offering for		
無線網路	Wireless Networks	Elective	3	3	Junior Year	All Grades with Flexible Scheduling		
網路技術實務與模擬	Practice and Simulation of Network Technologies	Elective	3	3	Junior Year			
無線通訊與行 動網路	Wireless Communicatio n and Mobile Network	Elective	3	3	Senior Year			

新世代網路	Next Generation Networks	Elective	3	3	Senior Year	
語意網路與資訊擷取	Semantic Web and Information Retrieval	Elective	3	3	Senior Year	
網路資訊安全	Computer Network Security	Elective	3	3	Senior Year	
網路規劃與管理	Network Planning and Management	Elective	3	3	Senior Year	
個人通訊服務網路	Personal Communicatio n Service Networks	Elective	3	3	Senior Year	
行動隨意感測 網路	Mobile ad hoc sensor networks	Elective	3	3	Senior Year	
網站資訊系統 設計與經營模 式	Web System Design and Operation	Elective	3	3	Senior Year	
Module B - C	Computer Syste	ems				
數值方法	Numerical Methods	Elective	3	3	Sophomore Year	
電腦視覺	Computer Vision	Elective	3	3	Sophomore Year	
軟體工程	Software Engineering	Elective	3	3	Junior Year	
硬體描述語言	Very High Speed Integrated Circuit Hardware Description Language	Elective	3	3	Junior Year	Course Offering for All Grades
企業系統分析 與程式設計	Business system analysis, design and programming	Elective	3	3	Junior Year	with Flexible Scheduling
工程數學	Engineering Mathematics	Elective	3	3	Junior Year	
計算機結構	Computer Architecture	Elective	3	3	Junior Year	
嵌入式系統	Embedded Systems	Elective	3	3	Junior Year	
資料庫系統	Database System	Elective	3	3	Junior Year	
圖形辨認	Pattern Recognition	Elective	3	3	Senior Year	

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普及計算	Pervasive computing	Elective	3	3	Senior Year				
最佳化演算法	Optimization Algorithms	Elective	3	3	Senior Year				
行銷策略資訊 系統	Marketing force strategic information system	Elective	3	3	Senior Year				
Module C - In	Module C - Intelligent Technologies								
普通物理	General Physics	Elective	3	3	Freshman Year				
物聯網技術與 發展	Internet of Things - Technology and Development	Elective	3	3	Freshman Year				
智慧型機械	Intelligent Machine	Elective	3	3	Sophomore Year				
電機機械與感 測器原理	Electric Machinery and Principles of Sensors	Elective	3	3	Sophomore Year				
人工智慧導論	Introduction to Artificial Intelligence	Elective	3	3	Sophomore Year	Course Offering for All Grades			
專利實務	Patent Practice	Elective	3	3	Junior Year	with Flexible Scheduling			
影像處理	Image Processing	Elective	3	3	Junior Year				
嵌入式系統軟 體設計	Software Design of Embedded System	Elective	3	3	Junior Year				
系統分析與設 計	System Analysis and Design	Elective	3	3	Junior Year				
物聯網技術實 務應用	Application of Internet of Things (IoTs) Technology	Elective	3	3	Junior Year				
數位訊號處理	Digital Signal Processing System	Elective	3	3	Senior Year				
產業科技實習	Practice of Industrial Technology	Elective	3	3	Senior Year				
機器學習	Machine Learning	Elective	3	3	Senior Year				