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| 課程名稱 | | (中文) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (英文) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 課程代碼 | |  | | | | | | | | 開課學程 | | | | | | | | | |  | | | | | | | | |
| 授課教師 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 必/選修 | |  | | | | 學分數 | | | |  | | | | | 開課年級 | | | | | | | |  | | | | | |
| 課程屬性 | | □數學及基礎科學 □工程專業課程(含設計實作)  □通識課程 □工程專業課程(不含設計實作) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 課程領域(可複選) | | □通訊系統 | | | | | | □訊號處理 | | | | | | | | | □通訊網路 | | | | | | | | | | | |
| 產業領域(可複選) | | □電信與網路通訊 | | | | | | □網路設備 | | | | | | | | | □穿戴式行動裝置 | | | | | | | | | | | |
| □電腦系統與週邊 | | | | | | □多媒體與數位內容 | | | | | | | | | □通訊網路服務與應用 | | | | | | | | | | | |
| □通訊晶片設計 | | | | | |  | | | | | | | | |  | | | | | | | | | | | |
| 先修科目或先備能力 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 課程概述 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 課程目標 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 教科書 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 參考書 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **課程綱要** | | | | | | | | | | | | **對應之學生核心能力**  **\*請填入數字1--->5，以表示關聯強度** | | | | | | | | | | | | | | | | |
| 單元主題 | | 內容綱要 | | | | | | | | | | 一 | | 二 | | 三 | | | 四 | | 五 | | | 六 | | 七 | | 八 |
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| **課程對應之教育目標** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| □ | 培育具創新思維之通訊專才 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| □ | 培育具人文關懷之社會菁英 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **教學要點概述** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 教材編選 | | □自己編寫 □教科書提供 □其他: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 教學方法 | | □講授 □研討 □實習/實驗 □投影片 □板書 □個別指導  □實作計畫 □上台報告 □討論互動 □其他: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 評量配分比 | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | |
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| 教學資源 | | □一般教室 □實驗室 □其它\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 教學輔具 | | 軟體 | |  | | | | | | | | | 硬體 | |  | | | | | | | | | | | | | |
| 學習輔具 | | 軟體 | |  | | | | | | | | | 硬體 | |  | | | | | | | | | | | | | |
| 教學相關配合事項 | | □ 分組討論 □ 校外活動 □ 學校單位支援 □ 無 □ 其它: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 課程平台 | | □ LMS □其他: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **課程相關核心能力對應之評量方式** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 核心能力 | 紙筆測驗/會考 | | 作業練習 | | 口頭報告/口試 | | 專題研究報告 | | 實作/  實驗 | | 出席/課堂表現 | | | 學習檔案評量 | | | | 自我評量/同儕互評 | | | | 作品/創作展演 | | | | | 其他 | |
| **一** |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
| **二** |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
| **三** |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
| 四 |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
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| 六 |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
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| 八 |  | |  | |  | |  | |  | |  | | |  | | | |  | | | |  | | | | |  | |
| **大學部八大核心能力及達成指標** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **運用數學、科學及工程知識的能力。**   達成指標A: 能運用數學與通訊專業。  達成指標B: 能運用科學與通訊專業。  達成指標C: 能運用工程知識與通訊專業。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **設計與執行實驗，以及分析與解釋數據的能力。**   達成指標A: 能設計實驗以達成實驗目的。  達成指標B: 能執行實驗以產生正確實驗結果。  達成指標C: 能正確分析與解釋實驗數據。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **執行工程實務所需技術、技巧及使用工具的能力。**   達成指標A: 處理工程實務時，能做人性議題考量，正確應用相關知識與技術。  達成指標B: 執行工程實務時，能閱讀相關技術文獻以解決問題。  達成指標C: 執行工程實務時，能操作相關軟硬體。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **設計與製作通訊工程系統的能力。**   達成指標A: 能根據專業知識設計通訊工程系統。  達成指標B: 能製作通訊工程系統。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **有效溝通與團隊合作的能力。**   達成指標A: 能協助團隊蒐集資料並對資料整理分析而提出意見。  達成指標B: 能了解自身在團隊的角色，並具積極主動的態度。  達成指標C: 能聆聽他人意見與溝通，並凝聚共識。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **發掘、分析及處理問題的能力。**   達成指標A: 遇到困難，能發掘問題所在。  達成指標B: 根據問題，能分析造成原因。  達成指標C: 根據問題原因，能處理並解決問題。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **認識時事議題，瞭解工程技術對環境、社會及全球的影響，並培養終身學習的習慣與能力。**   達成指標A: 能持續關心時事議題，並能思考其因果與影響。  達成指標B: 能瞭解工程技術對環境、社會及全球的影響。  達成指標C: 能活用知識背景，具終身學習的習慣與能力。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. **理解專業倫理及社會責任。**   達成指標A: 能了解專業倫理準則。  達成指標B: 能評估議題中涉及專業倫理的層面。  達成指標C: 能理解社會責任。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |