



課 綱 Course Outline  
體育與運動科學系碩士班

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| 中文課程名稱<br>Course Name in Chinese  | 體育統計與實驗設計  |                  |                  |  |     |
| 英文課程名稱<br>Course Name in English  |  |                  |                  |  |     |
| 科目代碼<br>Course Code   | PE__51700  | 班 別<br>Degree    | 碩士班<br>Master' s |  |     |
| 修別<br>Type  | 選修<br>Elective   | 學分數<br>Credit(s) | 3.0              | 時 數<br>Hour(s)   | 3.0 |
| 先修課程<br>Prerequisite  |  |                  |                  |  |     |
| 課程目標<br>Course Objectives   |  |                  |                  |  |     |
| <ol style="list-style-type: none"> <li>1. 學習推論統計的概念與計算。</li> <li>2. 學習推論統計Excel in Statistics、SPSS套專軟體的操作。</li> <li>3. 學習體育研究中實驗設計的統計概念。</li> <li>4. 學習軟體繪製結果圖。</li> <li>5. 學習實驗結果之呈現方式。</li> </ol> |  |                  |                  |  |     |
| 系教育目標<br>Dept.' s Education Objectives  |  |                  |                  |  |     |
| 1   | 培育學、術科的體育運動研究人才。<br>Foster science, technical subjects' research talented person in sports.                                      |                  |                  |  |     |
| 2   | 催生更多優質人才參與體育運動研究。<br>Generate more qualified people to participate in sports studies.  |                  |                  |  |     |
| 3   | 提供運動教育與體育研究良好的師資。<br>Provide sports and physical education studies good teachers.  |                  |                  |  |     |
| 4   | 以本土化之基礎及國際化之視野為學術界提供貢獻。<br>Provide foundation of localization and international vision as contribution to the academic community |                  |                  |  |     |
| 系專業能力<br>Basic Learning Outcomes  |  |                  |                  | 課程目標與系專業能力相關性<br>Correlation between Course Objectives and Dept.' s Education Objectives |     |
| A   | 具備體育運動研究發展及跨領域之學術研究能力。<br>Have the ability of academic research capacity and sports science research.                            |                  |                  |  |     |
| B   | 具備學術知能及實務研究之能力。<br>Have the ability of academic knowledge and practical research.  |                  |                  |  |     |

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| C  | 具備擁有體育運動教育教學能力。<br>Have the ability of sports teaching ability.             |  |
| D  | 具備體育本土化及國際化之視野。<br>Have internationalization vision and sport localization. |  |
| 圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated  |   |  |
| 課程大綱<br>Course Outline   |   |  |
| 1. 統計學概念<br>2. 統計資料之蒐集與整理<br>3. 統計資料之分析解釋<br>4. 抽樣與抽樣分配<br>5. 假設檢定<br>6. 實驗設計與變異數分析<br>7. 相關與迴歸分析<br>8. 資料分析－卡方檢定的應用<br>9. Excel in Statistics |   |  |
| 資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)<br>Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)                     |   |  |
| 1. 課堂講解。<br>2. 口頭報告。<br>3. 實際演練：實驗設計、資料收集與統計分析。  |   |  |
| 課程要求和教學方式之建議<br>Course Requirements and Suggested Teaching Methods   |   |  |
| 其他<br>Miscellaneous  |   |  |
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