



課 綱 Course Outline

體育與運動科學系學士班

中文課程名稱 Course Name in Chinese	應用運動生物力學									
英文課程名稱 Course Name in English	Applied Sport Biomechanics									
科目代碼 Course Code	PE_32320	班 別 Degree	學士班 Bachelor's							
修別 Type	學程 Program	學分數 Credit(s)	2.0	時 數 Hour(s)	2.0					
先修課程 Prerequisite										
課程目標 Course Objectives										
1. 學習運動生物力學的進階知能。 2. 學習運動生物力學研究的基礎方法。 3. 培養運動生物力學實驗資料處理與研究報告撰述的基礎能力。										
系教育目標 Dept.'s Education Objectives										
1	培養兼具人文與科學素養的優質體育師資。 To cultivate high-quality physical education teachers with both humanistic and scientific literacy.									
2	培養專業化之運動科研人才。 To cultivate specialized professionals in sports science research.									
3	培養運動與健康促進之專業人才。 To cultivate professionals in sports and health promotion.									
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	具備體育教學的專業知識與能力。 To possess professional knowledge and competencies in physical education teaching.				<input type="radio"/>					
B	具備運動技能示範與指導的專業知識與能力。 To possess professional knowledge and competencies in demonstrating and instructing sports skills.				<input type="radio"/>					
C	具備健康體適能、運動處方及運動傷害處置的專業知能。 To possess professional knowledge in health-related physical fitness, exercise prescription, and sports injury management.				<input checked="" type="radio"/>					

D	具備運動科學研究的理論知識。 To possess theoretical knowledge in sports science research.	●
E	具備專項運動訓練的知識與實務經驗。 To possess knowledge and practical experience in specialized sports training.	○
F	具備體育行政與運動管理的能力。 To possess competencies in physical education administration and sports management.	○
G	具備休閒運動規劃與行銷的能力。 To possess competencies in recreational sports planning and marketing.	○

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

課程大綱
Course Outline

運動生物力學的進階理論介紹。攝影器材與測力板原理介紹。影像實驗與地面反作用力實驗之介紹與實作演練。MegaSpeed影像擷取軟體介紹與實作。Kwon3D與KwonGRF軟體介紹與實作。

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.)

運動生物力學領域之專業師資聘任、運動生物力學實驗儀器的配合。

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

講授、討論、實作

其他
Miscellaneous