# 朝陽科技大學 099學年度第1學期教學大綱
# Physics and Life 生活與物理

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| **當期課號** | 0120 | **Course Number** | 0120 |
| **授課教師** | 徐暐亭 | **Instructor** | Shu,Wei Ting |
| **中文課名** | 生活與物理 | **Course Name** | Physics and Life |
| **開課單位** | 自然與科技發展課群(日) | **Department** | |
| **修習別** | 選擇必修 | **Required/Elective** | Topics in Natural and the? Development of Sciences |
| **學分數** | 2 | **Credits** | 2 |
| **課程目標** | 闡明物理觀念，使學生具備物理學的相關基礎。培養學生吸收科技知識的潛力，並利用已學習的數學工具，解決簡單、有趣、實用的物理問題。增進學生對各種問題的分析、解決能力，配合將來的需要。 | **Objectives** | Expound the physics idea; make students with physics on relevant foundations. Train students to absorb the potentiality of scientific and technological knowledge, utilize the mathematics tool of study, and solve the simple, interesting, practical physics problem. Promote student's analysis on various kinds of problems, settlement ability, the need that will cooperate in the future. |
| **教材** | 隨堂講義 影片 | **Teaching Materials** | Class notes ,video tape |
| **成績評量方式** | 期中考<br>期末考<br>作業以及報告<br>課堂表現 | **Grading** | Midterm examination<br>Final examination<br>Homeworks & Reports<br>Class participation |
| **教師網頁** | _ | | |
| **教學內容** | 生活物理學的範圍包含 速度 重力加速度 牛頓定律 週期運動 萬有引力 能量 大氣壓力 流體壓力 以及聲音 溫度的闡述 | **Syllabus** | Introduction to Course; Physical Quantities Vectors and Motion Along a Straight Line Free-Fall and Motion in Two and Three Dimensions Force and Motion Work Mechanical Energy Mechanics of Systems of Particles Rotation Equilibrium of Rigid Body Periodic motion<br>Elasticity and Simple Harmonic Motion Gravitation<br>Fluid Mechanics<br>Sound, Temperature |

尊重智慧財產權，請勿非法影印。