



## 教學計劃表 Syllabus

|   |   |                             |                                 |   |
|---|---|-----------------------------|---------------------------------|---|
| 課程名稱(中文)<br>Course Name in Chinese  | 書報討論(一)AB   |                             | 學年/學期<br>Academic Year/Semester | 114/1   |
| 課程名稱(英文)<br>Course Name in English  | Colloquium (I)  |                             |                                 |   |
| 科目代碼<br>Course Code   | PHYS4030AB  | 系級<br>Department & Year     | 學四                              | 開課單位<br>Course-Offering Department  |
| 修別<br>Type  | 學程 Program  | 學分數/時間<br>Credit(s)/Hour(s) | 1.0/2.0                         |   |
| 授課教師<br>Instructor  | /陳企寧  |                             |                                 |   |
| 先修課程<br>Prerequisite  |   |                             |                                 |   |
| 課程描述 Course Description   |   |                             |                                 |   |
| 參與系上演講，了解最新科技發展，藉由討論與心得報告學習研究交流。  |   |                             |                                 |   |
| 課程目標 Course Objectives  |   |                             |                                 |   |
| 於專題學術演講中吸取最新之物理及科學新知。介紹科學性國際期刊之格式及索引方法，並提供其閱讀及撰寫之訓練                       |   |                             |                                 |   |
| 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   | 具備物理之基礎背景知識<br>Possessing fundamental knowledge in physical sciences.   |                             |                                 | ○   |
| B   | 能運用基本物理知識與邏輯推理，分析解決物理問題<br>Being able to analyze and solve physics problems based on basic knowledge in physics as well as logical reasoning.   |                             |                                 | ●   |
| C   | 對目前測量器材有基礎認識，且具有操作物理實驗儀器的能力<br>Being acquainted with modern equipment and being able to operate them for performing physics experiments.        |                             |                                 | ●   |
| D   | 能使用基礎電腦程式語言解決物理問題<br>Being able to use basic computer programming for solving physics problems.   |                             |                                 |   |
| E   | 善用各種資訊平台進行論文資料蒐集的能力<br>Being able to use various platforms for data collection benefiting a topical research.                                   |                             |                                 |   |
| F   | 具備科技發展的國際視野以及外語溝通的能力<br>Having an international view of the technology developments and being able to use a foreign language for communications |                             |                                 |   |
| G   | 能整合物理與其它領域知識<br>Being able to integrate the knowledge of physics with that of other fields.   |                             |                                 | ○   |
| 圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated |   |                             |                                 |   |
| 授課進度表 Teaching Schedule & Content   |   |                             |                                 |   |
| 週次 Week   | 內容 Subject/Topics   |                             |                                 | 備註 Remarks  |
| 1   | 演講資訊見系上公告<br><a href="https://phys.ndhu.edu.tw/">https://phys.ndhu.edu.tw/</a> 演講資訊   |                             |                                 |   |
| 2   |   |                             |                                 |   |
| 3   |   |                             |                                 |   |
| 4   |   |                             |                                 |   |

|    |                    |  |
|----|--------------------|--|
| 5  |                    |  |
| 6  |                    |  |
| 7  |                    |  |
| 8  |                    |  |
| 9  | 期中考試週 Midterm Exam |  |
| 10 |                    |  |
| 11 |                    |  |
| 12 |                    |  |
| 13 |                    |  |
| 14 |                    |  |
| 15 |                    |  |
| 16 | 期末考試週 Final Exam   |  |
| 17 |                    |  |
| 18 |                    |  |

教學策略 Teaching Strategies

- 課堂講授 Lecture                       分組討論 Group Discussion                       參觀實習 Field Trip  
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)                       團體合作學習 (TBL)                       解決導向學習 (SBL)  
 翻轉教室 Flipped Classroom                       磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice                       產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching                       跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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學期成績計算及多元評量方式 Grading & Assessments

| 配分項目<br>Items  | 配分比例<br>Percentage | 多元評量方式 Assessments |          |          |          |          |          |          |    |
|--|--------------------|--------------------|----------|----------|----------|----------|----------|----------|----|
|  |                    | 測驗<br>會考           | 實作<br>觀察 | 口頭<br>發表 | 專題<br>研究 | 創作<br>展演 | 卷宗<br>評量 | 證照<br>檢定 | 其他 |
| 平時成績(含出缺席)<br>General Performance<br>(Attendance Record) | 50%                |                    | ✓        |          |          |          |          |          |    |
| 期中考成績 Midterm Exam                                       |                    |                    |          |          |          |          |          |          |    |
| 期末考成績 Final Exam   |                    |                    |          |          |          |          |          |          |    |
| 作業成績 Homework and/or<br>Assignments                      |                    |                    |          |          |          |          |          |          |    |
| 其他 Miscellaneous<br>(期末報告)                               | 50%                |                    |          |          |          |          | ✓        |          |    |

評量方式補充說明

Grading & Assessments Supplemental instructions

1. 出席 40 %：缺席三次(含)以上不予及格，請假應依校規辦理。
  2. 課堂參與 10%：課堂發言(提問、發表意見)每次 2%，單一堂課最高 6%，
  3. 心得報告 50%：自選兩次學術演講內容撰寫，兩份報告合併成一 PDF 電子檔上傳，每份至少 2 頁(字型大小 12、單行間距)。
- (上述評量方式還會再調整，實際評量方式以助教第一次上課時之公布為準)

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.  
Personal website can be listed here.)

其他補充說明 (Supplemental instructions)