

南台科技大學 98 學年度第 2 期課程資訊

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| 課程名稱 | TRIZ 創意理論與應用 |
| 課程編碼 | 10M09201 |
| 系所代碼 | 01 |
| 開課班級 | 碩研機械一甲 碩研能源一甲 碩研機電一甲 碩研奈米一甲 |
| 開課教師 | 林祥和 |
| 學分 | 3.0 |
| 時數 | 3 |
| 上課節次地點 | 二 6 7 8 教室 K214 |
| 必選修 | 選修 |
| 課程概述 | This course will introduce The Theory of Inventive Problem Solving: TRIZ. Including the historic background of TRIZ, the 40 inventive principles, and the separation principles will be presented in this course. |
| 課程目標 | This course guides students to become inventive by following the basic principles given by TRIZ. |
| 課程大綱 | <ol style="list-style-type: none"> 1.如何產生創意 2.一套產生創意的原理：TRIZ 3.TRIZ 的來源及發展 4.TRIZ 的架構 5.理想結果(Ideal Final Results) 6.問題解答的創意性層次(Level of Creativity) 7.物理性矛盾(Physical Contradiction) 8.解決物理性矛盾的方法 9.技術性矛盾(Technical Contradiction) 10.解決技術矛盾的 40 個創意原則(Inventive Principles) |
| 英文大綱 | <ol style="list-style-type: none"> 1. How to be Creative; 2. Theory of Inventive Problem Solving: TRIZ; 3. Historic Background of TRIZ; 4. The Content of TRIZ; 5. Ideal Final Results; 6. Level of Creativity; 7. Physical Contradiction; 8. Principles of Separation 9. Technical Contradiction; 10. 40 Inventive Principles; |
| 教學方式 | 課堂教授,口頭報告, |

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| 評量方法 | 自行設計測驗,作業／習題練習,口頭報告,課程參與度(出席率), |
| 指定用書 | No textbook |
| 參考書籍 | |
| 先修科目 | 無 |
| 教學資源 | Some class notes will be posted on Blackboard. |
| 注意事項 | <p>1. All homeworks and assignments must be submitted in print and also to Blackboard.</p> <p>2. No late homeworks or assignments is allowed.</p> <p>3. This course will be lectured in English, please take this into consideration before taking this course. (本課程採全程英語授課，修課前請加以考量)</p> |
| 全程外語授課 | 1 |
| 授課語言 1 | 英語 |
| 授課語言 2 | |
| 輔導考照 1 | 無 |
| 輔導考照 2 | 無 |