

工業設計之教學策略與流程 :以3C醫療產學合作 案為例

Teaching Strategies and Processes of Industrial Design: A 3C Medical Industry and University Cooperation Program as an Example

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摘要：設計專業的本質為跨領域科際整合(Multi-interdisciplinary)，產學合作案則是設計教學的極佳策略之一。本報告以3C產業與銘傳大學商品設計產學合作案之教學過程與策略內容為主，教學流程分三大階段，為期八週。第一階段進行市場、造形與人因等設計因素分析；第二階段發展並提出新造形或機構設計提案；第三階段製作數位模型與實體原型。參與本產學合作案的廠商、教師與學生對計畫成果皆給予極高的評價，報告內容應對設計教學及產學合作的相關研究與教學有所裨益。

關鍵詞：工業設計、設計流程、產學合作計畫、3C產業

Abstract: Design is naturally a multi-interdisciplinary profession; an industry and university cooperation program is one of the best strategies for teaching design. This report is a summary of practical design teaching processes and strategies exemplified by an industry and university

collaboration between the 3C Company and Ming Chuan University. The teaching process consisted of three main stages. During the eight weeks of the project, market, style, and ergonomics were analyzed (first stage); style and mechanical design were developed and proposed (second stage); and 3-D virtual models and numerical tooling models were constructed (third stage). All of the participants in this project, including the corporate representatives, design instructors, and the students appreciated the value and function of this collaboration. It is hoped that this study will benefit design education and research, especially in multi-interdisciplinary design schools.

Keywords: Industrial Design, Design Process, Industry and University Cooperation Program, 3C Industry.