

## 技職校院創業教育課程規劃與教學實驗-

### 技職校院機械系科創業教育課程規劃與教學實驗

# **A Study on Entrepreneurial Education Curriculum Planning and Teaching Experiment for Mechanical Engineering Department in Technological Colleges**

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## 摘要

時代不斷地變遷，而二十一世紀所面臨的環境更是急劇性轉變著；教育的初衷即本著孕育人才的理念，以符合時代的需求。因此，在不同的時代背景，教育方針亦需有所調整，以美國為例，時代背景已從管理型的經濟體系轉置為創業型，故在教育理念方面即納入創業教育，以期能培育相關產業所需的人才。反觀我國對於創業教育的理念，則處於萌芽開發階段，技職院校開設創業教育課程，更是屈指可數。本子計畫旨在探討技職院校機械系科創業教育之課程規劃與教學實驗。首先建構我國技職教育體系之機械系科創業教育能力及其評估指標，進而發展模組化課程，並經實驗教學，驗證機械系科創業教育之可行性，俾利培養機械產業創業人才。本子計畫為期三年，第一年主要目的為分析機械產業之成功創業者關鍵的創業能力與建構其能力評估指標，進而發展機械系科之創業教育模組科目，以作為第二年教材發展的依據。第二年即發展機械系科之創業模組科目的課程目標、課程

大綱、教學策略及教材，接著建構受測者之評量工具，並針對創業教育之模組教材及教學策略，進行形成性評量。第三年則實施前測與實驗教學，並發展創業構想計畫書評分準則及其競賽，且進行總結性課程評鑑；最後，確立技職院校機械系科之創業教育課程模組與教學策略，以期能將本研究結果提供機械相關系科開設創業教育課程之參考。

#### Abstract

The sub project aims to explore entrepreneurial education curriculum planning and teaching experiment for mechanical engineering department in technological colleges. First of all, constructing the competence indicator of mechanical engineering department in Taiwan, the sub project further develops modularized curriculum. In addition, the sub project will test the feasibility of entrepreneurial education of mechanical department through teaching experiment for developing entrepreneurial personnel in machinery industry. This sub project takes three years. In the first year, the primary goal is to analyze the key entrepreneurial ability of successful entrepreneurs in machinery industry, construct competence indicator, and developing entrepreneurial modularized subjects for mechanical engineering department. In the second year, the sub project will develop teaching objectives, teaching strategies and materials of entrepreneurial modularized subjects for mechanical engineering department, and, construct assessment tool for participants. Moreover, proceed formative evaluations to teaching strategies and materials of entrepreneurial modularized subjects for mechanical engineering department. In the third year, pretest, teaching experiment, entrepreneurial vision proposal, its competitions and summative curriculum evaluations will be carried out. Eventually, entrepreneurial

modularized curriculum and teaching strategies for mechanical engineering department in technological colleges will be established. It is hoped that the research results can serve as a reference for mechanical engineering department which open entrepreneurial education curriculum.