

專科學校機械類科因應半導體工業發展之課程建構研究

The Study on the Curriculum Building With Development Of Semi-Conductor Industry for Mechanical Departments of Junior College

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摘 要

機械類科是一門基礎科學與工程，科技的演進過程可由機械至電機及電子，甚至到資訊各類科，而形成整合科學與工程大趨勢；究其科技發展進步神速之導因，機械類科成為居功厥偉之基礎工程，因此本研究中針對機械類科與半導體工業之關連性作初步討論，進而規劃機械類科為配合半導體工業發展所需之半導體設備維護人才的課程建構，作更廣泛性的探討，初步分析與討論結果，其課程名稱為半導體製程與設備概論等九門課，每門課以 3 學分計，共可讓有興趣同學修得 27 學分，以加速提供半導體技術所需之機械人才。

關鍵字：機械類科、半導體工業、課程建構、專科學校

ABSTRACT

Mechanical Departments are based on science and engineering. The evolution of technology ranging from Mechanical Engineering to Electrical Engineering and Electronics, even referring to all sorts of multifaceted information system devices, increasingly composes into an irresistible general trend of science and engineering; the reason of gaining rapid advancement in science and technology is due to the prominent role of Mechanical Departments in the basics of Engineering. Therefore, this study initially discusses the relationship between Mechanical Departments and Semi-Conductor Industry forwarding to plan on the semi-conductor equipment repairing specialists for the development of Semi-Conductor Industry in the Curriculum Building as well as its more extensive exploration of the Curriculum Set-up.