

## 序

全國各大學院校面臨大環境變遷時必須於各面向保持彈性，且因應 105 年少子化衝擊，各項教學研究或輔導服務均須調整策略方針，依據本國人口數統計資料顯示，現今的在校學生大多出生於 80 年代，其出生人口數在 32 萬左右，惟民國 97 年以後的出生人口數已低於 20 萬，若以目前擔負最大經濟發展重任，即誕生於出生人口數接近 40 萬年代的國民所扛的重任為基準，現今在校學生承擔責任已較前者多達 1.25 倍，在各大學院校憂慮招生問題的同時，更重要的是學生需具備足夠的能力，以承擔越來越沈重的任務，本校具 94 年悠久歷史，自民國 94 年起持續以「教學精進」與「特色人力培育」為主軸執行教學卓越計畫，加速整體教學品質的提升，並發揮已擁有的實務能力特色，縮短學用落差，以研究性及產學性兩特性融合的綜合大學不斷精進。

本校 102 年在教學成效及各項軟硬體建設皆持續成長與進步，在硬體方面，啟用地上 8 層及地下一層的理工大樓；在軟體方面，學術研究與建教合作等獲得總經費逾 4 億 1 仟萬元；在行政績效方面，獲教育部機關或雇主推動員工帶薪學習制度獎勵優等獎；在教學績效與學生表現方面，除持續執行教育部教學卓越計畫外，機械與能源工程學系研發「無電溫控節能節水裝置」作品，獲得德國紐倫堡國際發明展 1 面銅牌及 1 面特別獎、師培中心榮獲教育部 101 及 102 年度教育實習指導教師典範獎及教育實習合作團體獎、視覺藝術學系之「綠齒輪-壓出環保轉動新世界」團隊，獲得「2012 校園公益青年」企劃書比賽優秀企劃團隊、國樂團勇奪全國音樂比賽優等第一名、湫音國樂社榮獲全國絲竹室內樂合奏優等獎、農藝志工隊及手工藝社連續榮獲全國大專校院學生社團評鑑特優獎、行銷與運籌學系獲得「2013 崇越論文大賞」3 座行銷優等獎及最佳報告獎等，顯示本校已有綜合大學多元發展的具體成果。

在推動國際化方面，以加強學術交流合作與學生國際行動力為主軸，一年來陸續與美國北卡羅萊納州立大學、加州弗雷斯諾州立大學、斯洛維尼亞盧比雅納大學、泰國農業大學及素勒他尼皇家大學等簽署合作交流備忘錄等，累計已與國外 54 所學校、遍佈全球 19 個國家締結姊妹校。目前本校學生有 12,889 人，僑生及外籍生接近 400 名，每年出國參加學術活動、與姊妹校交換學習或短期訪問學生數也快速增加，藉此拓展學生的國際視野與提升行動競爭力。

加強產學合作帶動區域發展善盡社會責任，亦是本校積極推展的重要項目，在隸屬綜合大學但擁有技職與教育大學的優良體質基礎上，落實理論與實務相結合的教學目標，發揮本校的體質特色優勢，校內積極加強研究發展、產學營運、試量產製造與企業育成中心的縱向系統整合，對外主動積極與嘉義產業創新研發中心、縣市政府以及鄰近工業區做緊密結合，累積產官學合作之研究能量與執行力，以「健康」、「人文」、「科技」為核心，以【know-how】連結相關產業共創其價值，以【know-why】作為學術的創新加值，運用在地豐富的天然資源，結合在地廠商活化產業繁榮區域發展，發揮本校的社會責任與教育使命。

本校整體校務發展平穩成長，辦學績效持續進步。期待全校教職員工戮力發揮本校的體質特色優勢，積極凝聚共識，營造優質的校園氛圍，群策群力建立有紀律的校園文化，持續改進校園的生態體質，秉持校訓「誠樸、力行、創新、服務」之精神，結合本校六學院六大領域特色及專長，實現「成就每一位學生 造就行行出狀元」的神聖使命。

校長  謹誌

2013.11.05

# Preface

Colleges in Taiwan should all stay flexible when facing changes. Strategies and guidelines for teaching, research, counseling and service should also be adapted to prepare for the impact of expected negative growth in population in 2016. According to the population statistics of Taiwan, most students today were born in the 1990s when 0.32 million births took place a year; however, the number of births has dropped to under 0.2 million since 2008. This means that the economic burden students today carry will be 1.25 times heavier, compared to that of the main labor force born in the year when there were 0.4 million annual births. Therefore, students' future capability to carry the increasingly heavy burden is of much greater concern than expected recruitment difficulties. With 94 years of history, National Chiayi University (NCYU) has been dedicated to achieving development in both research and industry-university cooperation. We have been implementing the Teaching Excellence Project since 2005 with a focus to enhance teaching and nurture talents, applying our practical training to bridge the gap between theory and practice.

This year NCYU has improved not only teaching quality but also software and hardware infrastructure. A new 8-story science and engineering hall was built, and a total of 0.41 billion was granted through research and industry-university cooperation. Moreover, we received a merit award from the Ministry of Education for encouraging staff development. In the aspect of teaching and learning outcomes, in addition to the Teaching Excellence Project, the Department of Mechanical and Energy Engineering received a bronze medal and a special prize at iENA in Nuremberg, and the Teacher Education Center received awards from the Ministry of Education for outstanding educational practice. Furthermore, the Department of Marketing and Logistics/Transportation won three Best Paper Awards in the category of marketing in the 2013 TOPCO Thesis Award. We also won a variety of awards in national competitions of clubs, arts and music, which shows NCYU has achieved development in every aspect.

In the aspect of the promotion of internationalization, with a focus to foster international exchange and collaboration, NCYU has cooperated with 54 foreign institutions from 19 countries. In the academic year 2012, it signed memorandum of cooperation with many universities, including North Carolina State University, USA; California State University, Fresno, USA; the University of Ljubljana, Slovenia; Kasetsart University, Thailand; and Suratthani Rajabhat University, Thailand. With 12,889 Taiwanese students and nearly 400 overseas Chinese and international students, we have been encouraging academic visits, research cooperation and students exchanges with foreign institutions to broaden our students' horizons and raise their competitiveness.

To fulfill its social responsibility, NCYU actively engages in collaboration with industries to foster regional development. As a comprehensive university, it features both general and vocational education with an aim to integrate theory and practice. In the field of internal development, NCYU takes advantage of its features, fostering research development, industry-university cooperation, and vertical integration with enterprise incubation centers in mass production. In the field of external development, NCYU seeks cooperation with the local governments and industrial parks, as well as institutions such as the Chiayi Industry Innovation and Research Center. It is our hope to maximize the collective efforts by making use of “know-how”, “know-why”, and local natural resources.

NCYU has seen steady growth since the two colleges merged into one in 2000. It is important that all the members work together to create a wonderful ambience and disciplined culture on campus. Let us put into practice the University motto, Simplicity, Action, Innovation and Service and continue to combine the features and advantages of our six colleges to make our students a success in all walks of life.

A handwritten signature in black ink, reading "Robin Y.-Y. Chiou", written over a horizontal line.

Robin Y.-Y. Chiou  
President, National Chiayi University  
November 2013