

University : National Chin-Yi University of Technology
Country : Taiwan
Web Address : www.ncut.edu.tw

[4.3.1] Does your university as a body provide access to educational resources for those not studying at the university, e.g. computers, library, online courses, access to lectures, etc?

是否為未能接受大學教育的群體提供教育資源（例如電腦、圖書館、線上課程、講座）的機會？

NCUT's Provision of Educational Resources to the Wider Community

NCUT demonstrates a strong commitment to social inclusion and lifelong learning by providing educational access and resources to individuals not enrolled at the university. Through community programs, open facilities, public lectures, and collaborations with local and national partners, NCUT extends its academic and technological expertise to foster knowledge sharing, professional development, and cultural enrichment within society.

1. Public Access to Educational Resources

a. Library Access

NCUT's Library and Information Center allows members of the public aged 12 and above to enter and use its facilities by presenting valid identification (e.g., ID card, driver's license, student card).

- Borrowing privileges are extended through the *Library Borrowing Procedures for Outsiders*, enabling community members to borrow books and research materials.
- Between 2021 and 2024, despite pandemic-related closures, the library recorded 4,302 visits by non-student users, highlighting its role as a community learning hub.

b. Art Center Access

The NCUT Art Center, established in 2019 and recognized by the Cultural Affairs Bureau of Taichung City Government, provides free access to exhibitions for the public.

- It hosts four to six exhibitions annually, promoting local artists and fostering creativity and cultural engagement.
- From 2021 to June 2024, the center organized 18 professional art exhibitions, enriching the cultural life of the surrounding community and advancing SDG 4.7 on education for sustainable development and cultural understanding.

2. Community Education and Outreach

a. Lifelong Learning Initiative — The “Third Age University” Program

In 2024, NCUT launched the Third Age University Program, a new initiative under the Ministry of Education’s national pilot plan to promote lifelong learning among citizens aged 55 and above. The program aims to provide the midlife and senior generations with flexible, interdisciplinary learning opportunities that combine academic knowledge with practical life skills.

- **Cross-Disciplinary Learning and Cooperation:**

The program is jointly run by the Department of Health Industry Technology and Management and the Department of Business Administration, creating a broad platform that integrates health, exercise, nutrition, digital innovation, and business management. This approach enables mature learners to explore personal interests, transition careers, or launch small sustainable businesses.

- **Active Aging and Health Management Track:**

This curriculum focuses on elderly care, exercise guidance, nutrition, and wellness management. Learners develop practical competencies applicable to community health promotion, institutional care, and self-health management, encouraging an active and healthy lifestyle in later life.

- **Career Transition and Design (AI and Digital Innovation Track):**

Designed for midlife professionals seeking transformation, this track blends management theory with digital technology and innovation, enhancing learners’ employability, entrepreneurial ability, and global communication skills.

- **Flexible Learning Model:**

The Third Age University uses modular courses, weekend and evening schedules, and credit accumulation systems tailored to adult learners. This model supports lifelong learning, allowing participants to balance study, work, and personal commitments.

Through the Third Age University, NCUT fosters a culture of lifelong education, empowering the midlife generation to build confidence, gain new skills, and continue contributing to society. It exemplifies NCUT’s dedication to inclusive education and the expansion of learning opportunities beyond traditional degree programs.

3. Community Impact

The university’s open-access and lifelong learning programs have generated significant social and educational benefits:

- Over 2,000 community participants each year engage in NCUT’s public courses, workshops, and online learning programs.

- Local residents and retirees report improved digital literacy, health awareness, and self-confidence.
- Cross-generational learning strengthens community cohesion, with older adults learning alongside university students in collaborative settings.
- The Third Age University has become a recognized model for lifelong education in central Taiwan, supporting Taiwan's policy of promoting active aging and sustainable development.

4. Public Workshops and Lectures

NCUT regularly holds open lectures and forums on sustainability, renewable energy, hydrogen technology, and smart manufacturing.

These events, often led by university professors or industry experts, are free to the public and promote the dissemination of advanced knowledge beyond campus walls.

5. AI Parent-Child Learning Camp

In partnership with the Taichung City Family Education Center, NCUT organized an AI Parent-Child Learning Camp, which drew nearly 200 participants within 24 hours of registration.

- Activities included AI programming, virtual reality, and hands-on technology experiences, allowing parents and children to learn together.
- This initiative reflects NCUT's efforts to integrate technology into family education and foster intergenerational digital literacy.

6. Industrial Talent Training Center

NCUT established the Industrial Talent Training Center to provide professional upskilling programs for current industry employees and community learners.

Key courses include:

- **SolidWorks** (3D CAD Design)
- **NX-UG (Unigraphics)** (Product Design & Manufacturing)
- **PowerMill** (Five-Axis Machining)

These programs strengthen Taiwan's industrial workforce while providing open access to training for local professionals, aligning with SDG 4.4 on developing relevant technical and vocational skills.

7. Online and Digital Learning Platforms



NCUT promotes open educational resources (OER) and digital learning platforms to broaden access to knowledge.

Through online modules and video lectures, individuals outside NCUT can access academic materials remotely, reducing educational inequality and supporting lifelong learning opportunities.

8. Partnerships and Collaborative Engagement

- **Government Collaboration:** NCUT partners with the Taichung City Education Bureau to deliver public education programs and parent-child workshops.
- **Industry Partnerships:** NCUT works closely with local companies to deliver certification and professional training programs.
- **Community Outreach:** Through service-learning and social responsibility projects, NCUT faculty and students engage in teaching, mentoring, and community development.

9. SDG Alignment and Impact

NCUT’s commitment to open and inclusive education aligns with multiple UN Sustainable Development Goals (SDGs):

| Focus Area | Impact | Related SDGs |
|--|---|-----------------|
| Access to educational resources for non-students | Promotes lifelong learning and community engagement | SDG 4.3, SDG 10 |
| Industrial skill training | Improves employability and supports regional innovation | SDG 4.4, SDG 8 |
| AI Parent-Child Camp | Strengthens digital literacy and family education | SDG 4.5, SDG 9 |
| Library & Art Center access | Expands knowledge, creativity, and cultural participation | SDG 4.7, SDG 11 |
| Online learning resources | Reduces barriers to education through ICT | SDG 4.3, SDG 9 |

Through its open educational resources, community learning platforms, and innovative Third Age University, NCUT is advancing the mission of education for all ages. By integrating academic excellence,

social responsibility, and sustainable development, NCUT not only provides lifelong learning opportunities but also reinforces its role as a leading institution promoting inclusive and sustainable education in Taiwan and beyond.



國立勤益科技大學 產學營運處
Office of Industry - Academia Collaboration

產業現職人才培育中心113年度課程列表

| 課程日期 | 時數 | 課程名稱 | 課程綱要 |
|---|-----------------------------------|-------------------------------------|---|
| 113/04/09 113/04/25 每週二、四 (18:45-21:45) | 18小時 (3小時/共六堂) | NX-UG 電腦輔助設計 自動拆模技術 | (一) 同步建模(移動面、拖拉面、取代面、包容體、參考圓角、取代體)。 (二) 模座組立導覽概念與操作練習。 (三) Mold Wizard 模貝設計:初始化模貝專案(載入零件、設定縮水率;定拔模方向;設定模仁尺寸;決定模穴配置方法;靠破分割(實體分模、剪除法、實體分割、輪廓分割法、曲面分割法、...);靠破修補(實體修補、曲面修補、邊緣修補、存在面修補、擴大面修補);分模(分模線、分模面、析出區域、產生公母模)。 (四) 拆模綜合練習。 |
| 113/05/07 113/05/30 每週二、四 (18:45-21:45) | 24小時 (3小時/共八堂) | NX-UG 電腦輔助設計 複雜曲面模型設計 | (一) 曲面幾何基本觀念: 曲面坐標系、U/V方向、斷面線/導引線、曲面的階與次方數、複合曲面的意義。 (二) 曲面模型設計: 直紋、網格曲面、掃掠曲面、橋接曲面、N邊曲面、截面曲面、延伸曲面、規則延伸、偏置曲面、變距偏置面、可變偏置、粗略偏置、曲面圓角、四點曲面、填充曲面、修剪薄體、帶狀面建構器、修剪&延伸、擴大曲面、修補開口、快速造面、由點構面(通過點構面、控制點構面、擬合曲面)…。 (三) 編修曲面特徵: 移動面、拉出面、偏置區域、分割面、刪除面、調整面大小、取代面、取代邊、修改圓角大小、複製面、設為共面、優化面…。 (四) 複雜產品造型設計3D模型綜合練習。 |
| 113/07/06 113/08/03 每週六 (09:00-16:00) | 27小時 + 3.5小時考照 (6小時/共五堂) | Solidworks 電腦輔助機械設計 CSWA原廠認證班 | 草圖、基本零件建模、對稱和拔模、陣列、旋轉特徵、薄殼與肋設計變更、模型組態、設計表格、組零件1-由下而上、組零件2-由上而下、組零件組裝、工程圖、屬性建立、圖紙範本建立、視圖使用、尺寸標註、BOM表使用、CSWA/CSWP原廠認證證照介紹與CSWA考證模擬訓練。 |
| 113/11/02 113/11/30 每週六 (09:00-16:00) | 30小時 (6小時/共五堂) | PowerMill 五軸加工機實作 | PowerMill基本介紹(視窗環境、檔案格式、檢視工具、滑鼠、著色分析等)、素材/座標設定建立、刀具/刀把設定、提刀高度進退刀連結設定、粗工法講解(粗、餘料加工)、各式精加工法(等高、平行、清角等)說明、邊界與參考線用法、路徑編輯修剪說明、各式孔特徵與工法介紹、3+2軸加工介紹、五軸刀軸各種設定、各式五軸工法功能應用、刀軸範圍與干涉偏斜、刀軸編輯功能說明、機台模擬設定、NC程式輸出與驗證、路徑模擬等。 |

【上述課程最晚皆於前三個月起開放報名，本單位保留變更之權利】



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NCUT Launches “Third Age University” Program to Create New Learning Opportunities for the Midlife Generation



The Ministry of Education has introduced the “Third Age University Pilot Program” this year, encouraging individuals aged 55 and above to pursue lifelong learning, foster self-growth, and continue contributing to society. National Chin-Yi University of Technology (NCUT) is participating for the first time, with the Department of Health Industry Technology and Management and the Department of Business Administration jointly enrolling students to provide a cross-disciplinary learning platform.

The Health Industry Department has launched the “Active Aging Program in Exercise and Health Management,” covering elderly care, exercise guidance, nutrition, and health management. This program equips learners with practical skills applicable in community health promotion, institutional services, and personal health management, while also opening opportunities for career transition, employment, or entrepreneurship.

Meanwhile, the Business Administration Department has established the “Career Transition and Design Program” (AI and Digital Innovation Track), which focuses on bridging the gap between theory and practice while enhancing management expertise, international communication, and humanistic literacy.