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HOT NEWS

臺科大 Taiwan Tech

校內新聞快報【八月・第06期】
School News Bulletin, August, Issue 06

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臺科大舉辦教師研習 3D 列印工作坊 提升實務經驗、縮短學用落差

Taiwan Tech Holds Teacher Workshop on 3D Printing to Enhance Practical Experience and Reduce the Gap Between Learning and Application

2023-08-31

臺灣科技大學材料科學與工程系、臺灣高速 3D 列印研究中心及金屬積層製造技術聯盟，聯手教育部產學連結育才平臺中區執行辦公室，於 2023 年 7 月 19 日至 21 日，在臺科大 3D 材藝夢工坊舉辦為期三天教師實務研習課程，主題為「智慧機械工作坊：3D 列印積層製造實務與應用」。臺科大謝志華老師解釋，3D 積層製造技術是以加法製造的概念進行加工，先掃描或電腦繪圖方式取得 3D 圖檔，透過切層軟體將立體資訊轉成逐層的平面資訊，再以設備逐層堆疊製作立體物件。黃欣萍老師進一步說明，課程有系統的介紹積層製造 7 大技術，讓學員了解加法與減法製造設計思維，培養學員實際操作擠製成型及光固化成型設備，透過實際列印，讓學員製作自行設計的樣品。學員之一的北科大文化事業發展系楊琇惠老師認為，最讓她印象深刻有兩點：實地去教授們的實驗室參學，以及列印自己作品。不僅教授們願意開放自己實驗室，無私地分享在 3D 列印技術上應用和突破。…點擊看更多

The Department of Materials Science and Engineering at Taiwan Tech, in collaboration with the Taiwan High Speed 3D Printing Research Center and the Metal Additive Manufacturing Consortium, partnered with the Central Region Office of the Ministry of Education's Industry-Academia Collaboration Talent Cultivation Platform. They held a three-day teacher practical training course from July 19th to 21st, 2023, at Taiwan Tech's 3D Material Art Dream Workshop. The theme of the course was “Smart Mechanical Workshop: Practical Applications of 3D Printing Additive Manufacturing”. Professor Zhi-Hua Xie from Taiwan Tech explained that 3D additive manufacturing technology employs an additive approach to production. It involves scanning or digitally generating a 3D file, transforming the three-dimensional information into layered flat data using slicing software, and then employing equipment to stack these layers and create a three-dimensional object. …more

展現創作潛力 臺科大學生獲臺東國際青年工藝設計營金獎

Displaying Creative Potential: Students from Taiwan Tech awarded Gold Prize at Taitung International Youth Craft and Design Workshop

2023-08-28

由臺東縣政府主辦的「臺東國際青年工藝設計營暨競賽」，至今已舉辦第九屆，今年由國立臺灣科技大學設計系學生劉宥希、陳虹菱以漂流木及鋼筋為主要材料的木工作品《與生活的對話》奪下金獎殊榮，獲得 8 萬元獎金。陳虹菱分享，平時做設計幾乎都以建模、3D 列印的方式完成作品，較少接觸到木頭和木工，對木頭也是一知半解，因此一開始的草圖只是理想上的設計，忽略了木頭重量上的問題。在老師們的幫助下，把重量與視覺效果列入考量，經過不斷的討論與調整，才能成功完成這個作品。劉宥希與陳虹菱進駐位於臺東知本的「山野牧人」工坊，在木作師傅的幫助下，賦予漂流木新生命。劉宥希說，在營隊的每一天都在與工藝師、設計師、自己，甚至是與大自然對話，「我們將在臺東生活中的點滴融入於作品中，也透過這些對話，讓我們更認識臺東。」《與生活的對話》利用自然光凸顯木頭的形狀與紋理，讓光線透過木頭間的縫隙灑落到空間，營造出舒適的氛圍…點擊看更多

The "Taitung International Youth Craft and Design Workshop and Competition," organized by the Taitung County Government, has successfully concluded its ninth edition. In this year's event, Yu-Hsi Liu and Hung-Ling Chen, students of the Department of Design at Taiwan Tech, were awarded the esteemed Gold Prize. Their woodworking creation titled "Dialogue with Life," predominantly crafted from driftwood and reinforced steel bars, earned them prestigious recognition along with a prize of NT$80,000. Hung-Ling Chen shared that in her usual design work, she primarily engages in modeling and 3D printing, with less exposure to woodworking. Her familiarity with wood was limited, so the initial sketches were more idealized, overlooking wood's weight-related challenges. …more

臺科大學生開發羽球撿球機提高訓練效率 獲旺宏金矽獎銀獎

Students from Taiwan Tech develop Badminton Shuttlecock Retrieval Machine to Improve Training Efficiency, Receiving Silver Award in the Macronix Golden Silicon Award

2023-08-24

被譽為台灣電子電機相關系所奧斯卡金像獎的旺宏金矽獎，日前舉行第 23 屆頒獎典禮，臺科大電子工程系教授林淵翔率領研究團隊陳子麒、朱可晴、黃彥龍、吳昱辰同學以作品「羽毛球撿球與缺陷檢驗智慧訓練系統」獲得評審青睞，順利抱回應用組評審團銀獎及 20 萬元獎金。隊長陳子麒指出，現今有許多運動科技輔助訓練的設備，但很少有人專門研發羽球撿球機，因此他們就設計出一款結合撿球、羽球檢驗及篩選、手機遠端操控以及拖地四大功能於一體的「羽毛球撿球與缺陷檢驗智慧訓練系統」，節省撿球的時間，有效提高使用者的訓練效率和便利性。目前就讀人工智慧跨域科技研究所的陳子麒分享，實驗室學長姐曾經做過物聯網羽球發球機，因此在指導教授林淵翔老師的鼓勵下，決定以羽毛球撿球機作為參賽主題，本次獲獎後也讓他們信心大增，期望未來有機會可以將發球機與撿球機二者串聯結合，讓羽球訓練更加智慧便利。…點擊看更多

The Macronix Golden Silicon Awards, acclaimed as the "Oscars" of Taiwan's electronics and electrical engineering-related departments, recently held its 23rd award ceremony. Professor Yuan-Hsiang Lin, from the Department of Electronic and Computer Engineering at Taiwan Tech, led a research team including students Tzu-Chi Chen, Ke-Ching Chu, Yen-Long Huang, and Yu-Chen Wu. Their work titled "A Smart Training System for Shuttlecock Retrieval and Defect Inspection in Badminton" garnered favorable recognition from the panel of judges. This accomplishment secured them the Silver Award from the Application Group Jury, along with a prize of 200,000 NTD. Team leader, Tzu-Chi Chen, pointed out that while there are numerous sports technology devices for training assistance, there is a scarcity of dedicated efforts towards developing a shuttlecock retrieval machine for badminton. …more

臺科大 USR 團隊遠赴尼泊爾皮桑山城 活化百年石板屋、提升防災韌性

2023-08-21

Taiwan Tech’s USR team travels to Pokhara, Nepal, to revitalize century-old stone houses and enhance disaster resilience

臺科大 USR「城南無限-都市與無限大學的永續共築計畫」團隊，今（112）年 7 月 21 日至 8 月 5 日間，由營建系蕭博謙副教授帶領 16 位臺科大學生及職員前往尼泊爾皮桑（Pisang）小鎮，與臺北市珠珠媽媽兒童教育關懷協會合作，活化百年文化資產、建構防災避難機制。團隊規劃修復一座百年傳統石板屋建築作為故事屋，藉由融合皮桑山城的在地防災機制、文資脈絡、自然景觀、農業與宗教等特色，提升聚落之韌性與永續發展。故事屋將融入當地歷史文化故事，並規劃販售農產相關產品。蕭博謙副教授說明，臺科大學生們首先向當地耆老諮詢傳統建築技術，包含材料取得、建造工法及傳統建造習俗，並瞭解居民對石板屋改造需求。針對石板屋進行詳細調查，確認房屋現狀和細部尺寸，以利返臺後繪製建築結構平面圖與立面圖，進行結構分析及修復設計與改造。…點擊看更多

During the period of July 21st to August 5th, 2023, Taiwan Tech's USR team, "Infinite South - Sustainable Co-construction of Urban and Infinite University", led by Associate Professor Po-Chien Hsiao from the Department of Construction Engineering, along with 16 Taiwan Tech students and staff, embarked on a journey to Pisang, Nepal. They collaborated with the Taipei City Zhu Zhu Mama Children's Education and Care Association to revitalize century-old cultural assets and establish disaster preparedness and evacuation mechanisms. The team's initiative involves restoring a century-old traditional stone slate house, intended to serve as a narrative hub. By amalgamating the local disaster preparedness mechanisms, cultural heritage context, natural landscapes, agricultural practices, and religious elements of Pisang town, the team aims to enhance the resilience and sustainable development of the settlement. …more

臺科大攜手上銀科技扎根產學 培育科技人才共創雙贏

Taiwan Tech collaborates with HIWIN to establish a strong industry-academia partnership, nurturing technological talents and creating a win-win situation

2023-08-18

國立臺灣科技大學與上銀科技於 17 日舉行簽約儀式，規劃 12 年長期合作，每年挹注 1,000 萬元經費，共同培育智慧製造、人工智慧與能源永續科技等相關領域人才與產學合作。上銀集團創辦人卓永財對國內產業發展、科技教育貢獻良多，於 2015 年獲頒臺科大名譽工學博士學位，也擔任臺科大產學創新學院指導委員，貢獻寶貴的產業經驗，為業界培養優秀人才。為強化核心競爭力，臺科大產學創新學院積極與政府、企業三方合作，致力培育國際專業人才，臺科大校長顏家鈺表示，上銀集團是世界第一大滾珠螺桿製造商，很高興可以有機會跟上銀集團進行產學合作，在機電、人工智慧與能源永續方面進行研發，共同把技術扎根台灣。上銀科技是台灣精密機械關鍵零組件的標竿企業，為激發青年學子在機械工程領域的研發與創新潛力，自 2004 年起舉辦「上銀機械碩士論文獎」，總投入金額逾億元，倍受國內機械業與學術界重視。…點擊看更多

On the 17th, Taiwan Tech and HIWIN held a signing ceremony, outlining a 12-year long-term collaboration. Under this strategic partnership, an annual allocation of 10 million New Taiwan Dollars has been designated to cultivate talents and foster industry-academia cooperation in fields such as smart manufacturing, artificial intelligence, and sustainable energy technology. The founder of HIWIN, Mr. Yong-Cai Zhuo, has made significant contributions to domestic industry development and technological education. Recognized for his accomplishments, he was awarded an honorary doctoral degree in engineering from Taiwan Tech in 2015 and also serves as a guiding committee member for the university's Industry-Academia Innovation College. He contributes valuable industry experience to cultivate outstanding talents for the industry. In the pursuit of fortifying our core competitive …more

臺科大辦國際工作營 東亞五校以設計力回應地方再興需求

2023-08-14

Taiwan Tech Hosts International Workshop: Five Universities of East Asia Utilize Design Capability to Respond to Local Revitalization Needs

因疫情停辦 2 年的「東亞都市及建築設計國際工作營」，今年 8 月初由臺科大復辦，營隊成員分別來自臺灣、日本、韓國、中國、泰國五所學校，東道主臺科大突破往例，率隊離開主辦學校所屬城市，設定台東關山鎮為設計場域，希望關山在地文化的衝擊，使國際學生跳脫框架，發展多元建築創作思維。「東亞都市及建築設計國際工作營」17 年來分別由臺科大、日本神奈川大學、韓國成均館大學、中國哈爾濱工業大學、泰國吞武里國王科技大學輪流擔任主辦單位。今年是疫情後首次復辦，強調國際視野與在地連結，創造關山鎮民社交場域的空間營造思維，讓建築設計因地制宜。工作營主辦人臺科大建築系邱奕旭主任認為「越在地，越國際」，營隊參考關山鎮發展需求，設定關山親水公園、米國學校、關山鎮老街為三大設計場域，希望關山多元文化的衝擊，能激發跨國學生團隊提出創新的空間設計構思。…點擊看更多

After a two-year hiatus due to the pandemic, the "East Asian Urban and Architectural Design International Workshop" resumed this August, hosted by Taiwan Tech. The cohort of participants comprises representatives from five distinguished institutions, such as Taiwan, Japan, South Korea, China, and Thailand. Departing from the norm, the host university, Taiwan Tech, led the team away from its affiliated city and chose Taitung's Guanshan Township as the design site. The aim was to immerse international students in the local culture of Guanshan, thereby encouraging them to break free from conventions and develop diverse architectural creative thinking. For the past 17 years, the "East Asian Urban and Architectural Design International Workshop" has been organized sequentially by Taiwan Tech, Kanagawa University in Japan, Sungkyunkwan University in South Korea, Harbin Institute of Technology in China, and Thammasat University in Thailand. …more

臺科大校長：有種能力，不會被 AI 淘汰

2023-08-10

President of Taiwan Tech: There's a type of ability that won't be replaced by AI

近年生成式 AI 備受關注，經測試，ChatGPT 可以回答專業領域的問題，但使用者仍需具備專業知識，才可以看懂並操作 ChatGPT 給予的建議。

臺科大校長顏家鈺認為，AI 帶來的衝擊，若要因生成式 AI 而改變高等教育的課程及教學方式，目前為時尚早，但顏家鈺指出，學子應先奠定扎實的基礎知識，並學習更高階、整合的程式及新興技術。顏家鈺直言，每 5 至 10 年就會有新技術產生，甚至取代舊有技術，因此學子應保持學海無涯、與時俱進的心態。

本文摘錄改寫自天下雜誌第 779 期，2023 年 8 月 8 日，https://www.cw.com.tw/article/5126871 ）…點擊看更多

In recent years, the spotlight has increasingly turned to generative AI. Through testing, it's been established that ChatGPT can respond to questions within specialized domains. However, users still need to possess professional knowledge to comprehend and utilize the recommendations provided by ChatGPT.President of Taiwan Tech, Jia-Yush Yen, believes that the impact of AI, especially in terms of altering higher education curricula and teaching methodologies through generative AI, is currently premature. Nonetheless, President Yen points out that students should first establish a solid foundation of fundamental knowledge and then proceed to learn more advanced, integrated programming, and emerging technologies.

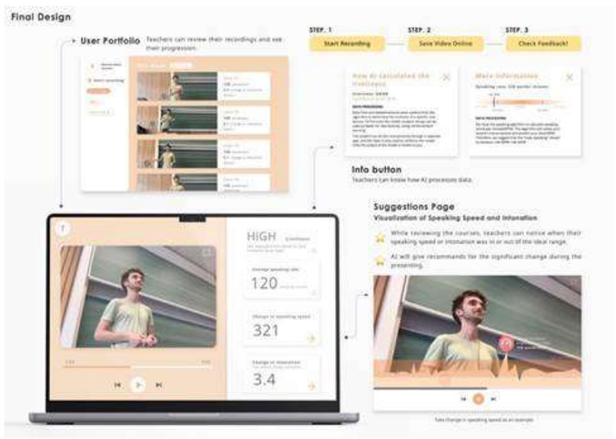
President Yen candidly states that new technologies emerge every 5 to 10 years, often replacing existing ones. As a result, students should maintain a mindset of continuous learning and staying up-to-date to navigate the boundless expanse of knowledge.

(This excerpt is adapted from the 779th issue of Common Wealth Magazine, dated August 8, 2023, from https://www.cw.com.tw/article/5126871) …more

臺科大學生獲教育部獎學金 赴歐追夢拓展國際視野

Students from Taiwan Tech receive Ministry of Education scholarships, go to Europe to pursue dreams, and expand international horizons

2023-08-09



臺科大學生榮獲 112 年教育部「藝術與設計菁英海外培訓計畫」全額獎學金，其中建築系大四生劉奕廷獲得英國 CRAB 建築師事務所（Cook Robotham Architectural Bureau）的實習機會。設計系碩二生羅尹余則會前往荷蘭台夫特理工大學(Delft University of Technology)進修。建築系劉奕廷表示，錄取英國 CRAB 建築師事務所當實習生，是非常難得的機會。該事務所曾獲英國 Stirling Prize 獎，注重藝術性與實用，專長包括建築設計、景觀環境設計、空間/家具設計等。通常在國外要申請到完整的實習，前提是要在附近地區就學才會較為容易。而到事務所上班的一年中，儘管建築業的案件耗時，依舊可以跟到案子的大致流程，學到比較完整的案件跟事務所運營方式，加上國外建案種類繁多，因此他非常期待。很感謝臺科大建築系老師們的鼓勵及協助參加校外國際競賽，尤其是陳彥廷老師提供包括版面調整的許多建議。…點擊看更多

Students from Taiwan Tech have been awarded full scholarships under the Ministry of Education's 'Art and Design Elite Overseas Training Program' for the 112th year. Among them, Yi-Ting Liu, a senior student in the Department of Architecture, has been granted an internship opportunity at the Cook Robotham Architectural Bureau (CRAB) in the United Kingdom. Additionally, Yin-Yu Luo, a second-year graduate student in the Department of Design, will be studying at Delft University of Technology in the Netherlands.Yi-Ting Liu, from the Department of Architecture, expressed that being accepted as an intern at the CRAB Architectural Bureau in the UK is a rare opportunity. Renowned for receiving the UK Stirling Prize, the bureau focuses on the combination of artistry and practicality, with expertise in architectural design, landscape environment design, and space/furniture design. Usually, it's easier to secure internships abroad if you are studying in a nearby region. …more

臺科大「華夏校區」揭牌 資源整併打造研發人才培育基地

Huaxia Campus of Taiwan Tech Unveiled: Resource Integration to Build a Base for Research and Talent Cultivation

2023-08-02

國立臺灣科技大學於 112 年 8 月 1 日成立華夏校區，舉行揭牌活動，教育部部長潘文忠、技職司司長楊玉惠，臺科大顏家鈺校長、華夏科大董事會率二校教職員生出席典禮，攜手合作共創技職典範。教育部潘文忠部長表示，今天是台灣技職歷史性的一刻，要特別感謝華夏董事會在華夏經營招生發展都是正常的情形，無私的決定，同意整併，首創公私立科技大學整併的首例。臺科大和華夏科大的創校歷程，涵蓋臺灣經濟發展及整個技職教育體系脈絡，華夏科大最早校名是「華夏農業專科學校」，歷經農專、工專、工商專、技術學院，103 年改制為「華夏學校財團法人華夏科技大學」。臺科大成立於民國 63 年，是第一所設立的技術學院(臺灣工業技術學院)，也是技職第一所高等教育學府，在民國 86 年從技術學院改名為科技大學 …點擊看更多

Taiwan Tech established the Huaxia Campus on August 1, 2023, and held an unveiling ceremony. The event was graced by the presence of esteemed guests, including the Minister of Education, Wen-Chung Pan, Director-General of the Department of Technological and Vocational Education, Yu-Hui Yang, President of Taiwan Tech, Jia-Yush Yen, and members of the board from both Taiwan Tech and Huaxia Tech, along with faculty and students from both institutions. The occasion marked a significant milestone in their collaborative effort to create a model for technological and vocational education. The Minister of Education, Pan Wen-Chung, stated that today marks a historic moment for vocational education in Taiwan. …more