國立臺灣科技大學 Taiwan Tech

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臺科大 TAIWAN TECH



NEWS 校內新聞快報

HOT NEWS

臺科大 Taiwan Tech

校內新聞快報【八月・第42期】

School News Bulletin, August, Issue 42

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臺科大攜手蟾蜍山煥民新村 通識教育走進城南文化廊帶

2026-08-31

Taiwan Tech partners with Huanmin New Village to bring general education into the community.



國立臺灣科技大學（以下簡稱臺科大）通識教育中心城南學院日前與臺北市文化基金會（以下簡稱文基會）蟾蜍山煥民新村正式簽署合作備忘錄，由臺科大通識教育中心主任李思穎與臺北市文化基金會總監張玉漢代表雙方簽署。未來雙方將攜手推動在地教學、空間活化與文化交流，進一步串聯校園與地方資源，深化大學社會責任實踐。臺科大通識教育中心長期以學校所在的公館城南生活圈為通識教育實作場域，持續盤點鄰近文化資源並拓展教學合作夥伴。適逢煥民新村開園及文基會積極推動高教合作，雙方進一步展開交流，促成此次合作備忘錄簽署，為既有的教學奠定更穩定的合作基礎。臺科大通識教育中心主任李思穎表示，煥民新村鄰近校園，兼具眷村文化、聚落生活、淺山生態及當代藝文等多元面向，適合作為不同領域通識課程相互交會的學習場域。簽署合作備忘錄後，未來臺科大可在煥民新村園區室內空間辦理課程、工作坊及展覽，雙方也將進一步展開各種合作與交流。 ...點擊看更多

Taiwan Tech and the Huanmin New Village at Toad Hill, in collaboration with the Taipei Culture Foundation, have officially signed a memorandum of understanding (MOU) to promote local-based education, space revitalization, and cultural exchange. The MOU was signed by Sy-Ying Lee, Director of the Center for General Education at Taiwan Tech, and Yu-Han Chang, Director of the Taipei Culture Foundation. Through the partnership, the two sides will connect campus and local resources and further advance the university's social responsibility initiatives.For many years, the Taiwan Tech Center for General Education has used the Gongguan – southern area surrounding the university as a learning and practice site for general education. By identifying nearby cultural resources and developing partnerships with local organizations, the Center has gradually expanded opportunities for students to learn beyond the classroom. ...more

臺科大教師赴澎湖實地探查　從 USR 看見大學陪伴地方的力量

2026-08-27

From USR to Local Impact: Taiwan Tech Faculty members support local community development in Penghu.



為深化社會實踐課程與大學社會責任（University Social Responsibility, USR）推動，國立臺灣科技大學通識教育中心於 7 月 22 日至 25 日辦理「澎湖實踐探查之旅」，由教師組成訪查團，走訪國立澎湖科技大學、地方創生團隊、海洋教育場域及社區聚落，透過實地交流、場域走讀與深度對話，探索大學如何透過 USR 與地方建立長期夥伴關係，並將地方經驗轉化為社會實踐課程、教學創新及跨域合作的實踐動能。此次訪查涵蓋「USR 與通識教育」、「海洋教育與漁業文化」及「地方創生與社區營造」等主題。與過去以參訪為主的學習模式不同，教師們深入地方現場，從社區居民、返鄉青年、場域經營者及大學 USR 團隊的分享中，看見地方發展背後累積多年的努力，也重新理解大學在地方扮演的角色，不只是知識提供者，更是陪伴者、合作夥伴與共創者。多位教師於每日回饋中提到，最深刻的收穫並非來自單一案例，而是看見 USR 團隊與地方建立長期信任關係的歷程。 ...點擊看更多

To deepen the integration of social practice courses with University Social Responsibility (USR), the Center for General Education at Taiwan Tech organized the "Penghu Social Practice Field Study" from July 22 to 25. A faculty delegation visited National Penghu University of Science and Technology, local revitalization teams, marine education sites, and community settlements. Through on-site exchanges, field visits, and in-depth dialogue, the delegation explored how universities can establish long-term partnerships with local communities through USR and transform local experiences into momentum for social practice courses, teaching innovation, and interdisciplinary collaboration. The field study covered topics including "USR and General Education", "Marine Education and Fishing Culture", and "Local Revitalization and Community Development." ...more

創新包裝設計　臺科大師生團隊濟豐盃摘三獎

2026-08-26

Taiwan Tech team wins three Jifeng Cup Awards with innovative packaging designs.



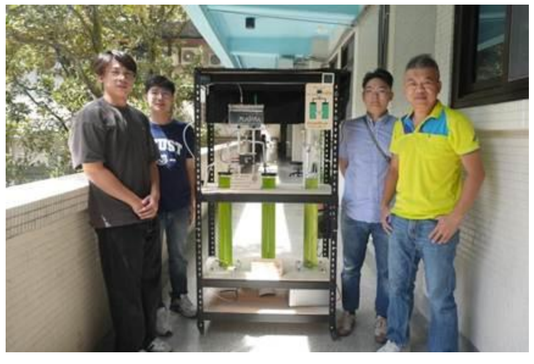
國立臺灣科技大學設計系師生參加第 14 屆「濟豐盃」紙包裝結構設計競賽表現亮眼，許呈湧老師榮獲優秀指導教授獎，並指導兩組團隊：設計系三年級許蕎璽、三年級徐采昀組成團隊以作品《箱堆論》榮獲一等獎；設計系三年級許芸禎、三年級江宜恩設計的《Givit》則獲得二等獎。兩組作品均聚焦物流包裝與使用者體驗，從實際配送流程出發，透過紙箱結構創新，提出兼顧辨識效率、使用便利與永續循環的設計方案，獲得評審肯定。榮獲一等獎的《箱堆論》，針對外送市場的配送情境進行設計。團隊觀察發現，外送餐點集中堆放於社區取餐點時，常因包裝外觀相似、資訊遭遮蔽，導致消費者難以辨識、誤拿餐點，甚至發生餐點遭竊的情況；配送員則必須在有限停留時間內，從大量相似包裹中快速找到指定訂單，影響配送效率。 ...點擊看更多

Students and faculty from the Department of Design at Taiwan Tech delivered an outstanding performance at the 14th Jifeng Cup Paper Packaging Structural Design Competition. Lecturer Cheng-Yung Hsu received the Outstanding Advisor Award and guided two Taiwan Tech student teams. Third-year Design students Chiao-Hsi Hsu and Tsai-Yun Hsu formed a team that won First Prize with their project "Box Stack Theory", while third-year Design students Yun-Chen Hsu and Yi-En Chiang received Second Prize for their project "Givit". Both projects focused on logistics packaging and user experience. Starting from real-world delivery scenarios, the teams introduced innovative carton structures and proposed design solutions that balance identification efficiency, ease of use, and sustainable circularity, earning recognition from the judges. ...more

以電漿活性水提升微藻固碳效能 臺科大團隊打造永續微藻碳固定平台

2026-08-24

Taiwan Tech Team develops a sustainable microalgae carbon fixation platform with plasma-activated water.



隨著全球積極推動淨零碳排，微藻因擁有高效率光合作用與生質能源應用潛力，成為備受矚目的綠色技術之一。國立臺灣科技大學機械工程系特聘教授郭俞麟研究團隊結合電漿水與微藻培養技術，深入研究綠色固碳方法，團隊成員張柏翔成功驗證「電漿活性水(Plasma Activated Water, PAW)」在特定條件下可有效促進淡水小球藻生長，大幅提升碳固定效率，並提出「永續微藻碳固定平台」概念，為未來低碳循環技術與生物碳捕捉提供新方向。微藻除了可以有效固定二氧化碳外，還能轉化成多種高值產品，例如藻脂質可轉化為生質柴油，碳水化合物能製作生質酒精，部分藻色素、蛋白質也可作為保健品、飼料或綠色材料等。相較於傳統碳捕捉技術，如地質封存、化學吸收或物理吸附，微藻固碳具有低耗能、低污染及高資源化等優勢，有望成為未來推動低碳循環經濟的重要解方。...點擊看更多

As countries around the world actively pursue net-zero carbon emissions, microalgae have emerged as a promising green technology due to their highly efficient photosynthesis and potential applications in bioenergy. A research team led by Distinguished Professor Yu-Lin Kuo of the Department of Mechanical Engineering at Taiwan Tech has combined plasma-activated water and microalgae cultivation technologies to explore green carbon sequestration methods. Team member Po-Hsiang Chang successfully demonstrated that, under specific conditions, Plasma-Activated Water (PAW) can effectively promote the growth of freshwater green microalgae (Chlorella vulgaris) and significantly improve carbon fixation efficiency. The team has also proposed the concept of a “Sustainable Microalgal Carbon Fixation Platform”. providing a new direction for future low-carbon circular technologies and biological carbon capture. ... ...more

臺科大校長：上大學不只為文憑，把握機會出國交換

2026-08-21

Taiwan Tech President: university is more than a degree - seize every chance to go abroad and explore.



新學期即將開始，很多同學已經在規劃新學期的目標，猜想大一新生應該正在勾勒大學 4 年的藍圖。坊間常說大學必修三學分，包含課業、社團與愛情，都能修滿當然是好事，但如果做不到也不用太氣餒。因為每個人都有適合自己走的路，無需太過努力迎合他人或者社會的期待。儘管我對所謂的大學必修三學分沒有強求，但有一點希望學生在大學時務必做到，那就是「拓寬視野」。大學生如何拓寬視野？我有 3 個建議。首先是「多聽演講」。走在校園或瀏覽學校網站，同學應該很常能看到活動海報或資訊，當這些國內外學者專家來演講時，不論講者名氣，不管任何主題，我都鼓勵同學去聽，聽不懂也沒關係。因為這群講者的內容往往凝練長時間的思考與經歷，甚至融入異國文化與觀點，會在意想不到的地方啟發聽眾。其次，則是「多跟教授互動」。每位能在學術界立足的教授，一定有他過人之處，比如有的老師特別會發表論文，有的雖然不太會寫論文，卻很擅長做研究，有的則是跟產業界關係特別密切，值得觀察與思考他們的優點。...點擊看更多

With the new semester just around the corner, many students are already setting goals and making plans for the months ahead. Freshmen, in particular, are probably beginning to envision what they want their four years of college life to look like. There is a popular saying that college students have three “must-earn credits”: academics, extracurricular activities, and romance. Of course, completing all three would be wonderful, but there is no need to feel discouraged if you do not. Everyone has a path that suits them, and there is no need to work too hard to live up to the expectations of others or society.While I do not insist that students pursue these so-called three essential college experiences, there is one thing I sincerely hope every student will make a priority during college: broaden your horizons. ...more

《遠見》2026 最佳大學排行榜　臺科大名列工程、製造及營建領域第三

2026-08-18

Taiwan Tech ranks third in Engineering, Manufacturing and Construction in 2026 Global Views University Rankings.

工程、製造及營建領域

學校	名次	比去年
國立成功大學	1	0
國立臺灣大學	2	0
國立臺灣科技大學	3	0
國立清華大學	4	0
國立陽明交通大學	5	0
國立臺北科技大學	6	0
國立中央大學	7	0
國立雲林科技大學	8	4
中原大學	9	0
國立中興大學	10	0

《遠見雜誌》公布「2026 台灣最佳大學排行榜」，國立臺灣科技大學表現穩健，於最佳大學總榜維持全國第 9 名，並蟬聯技專校院第 1 名，在公立大學排名第 7、綜合學門大學（非人文社科及醫學）排名第 6，穩居技職教育龍頭地位。其中，工程、製造及營建領域勇奪全國第 3，資訊通訊科技領域排名第 5，充分凸顯臺科大深厚的科研能量與專業實力。《遠見雜誌》公布「2026 台灣最佳大學排行榜」，國立臺灣科技大學表現穩健，於最佳大學總榜維持全國第 9 名，並蟬聯技專校院第 1 名，在公立大學排名第 7、綜合學門大學（非人文社科及醫學）排名第 6，穩居技職教育龍頭地位。其中，工程、製造及營建領域勇奪全國第 3，資訊通訊科技領域排名第 5，充分凸顯臺科大深厚的科研能量與專業實力。臺科大長期深化學研與產業鏈結，產學合作成果亦反映於具體數據。...點擊看更多

Global Views Monthly has released the “2026 Taiwan Best Universities Ranking”, with Taiwan Tech maintaining a strong performance. Taiwan Tech ranked No. 9 nationwide in the overall ranking and retained its position as the No. 1 university of science and technology in Taiwan for the ninth consecutive year. It ranked No. 7 among public universities and No. 6 among

comprehensive universities (excluding humanities and social sciences and medical universities), firmly maintaining its leading position in Taiwan's technical and vocational education sector. In terms of academic fields, Taiwan Tech ranked No. 3 nationwide in Engineering, Manufacturing and Construction and No. 5 in Information and Communication Technologies, highlighting its strong research capabilities and professional expertise.....more

臺科大材料營攜手國際大廠 導入 VR 與 AI 翻轉材料科學

2026-08-17

Taiwan Tech Materials Camp partners with industry leaders to transform materials science with VR and AI.



由國立臺灣科技大學材料科學與工程系（以下簡稱臺科大材料系）主辦的「2026 臺科大暑期材料營」盛大登場。本屆材料營打破傳統框架，首度展開「產學跨界合作」，前三天由臺科大材料系主辦紮實的材料科學課程，第四天則攜手國際半導體大廠台灣美光（Micron）、台灣默克（Merck）、女性工程師學會（Society of Women Engineers, SWE）以及台中市立后綜高級中學，共同舉辦一日科學實作工作坊「2026 Going Tech Summer Camp」，為全國高中職學生打造兼具理論、實務與尖端科技的學習盛宴。此次營隊的核心亮點聚焦於材料科學在半導體產業的關鍵應用。擁有超過 350 年歷史、在半導體材料領域扮演舉足輕重角色的台灣默克，帶來了深厚的無機與有機材料知識；全球記憶體巨擘台灣美光則深入淺出地解析無機材料、半導體製程概念與最新的記憶體技術。令人矚目的是，台灣美光本次特別導入了「VR（虛擬實境）與 AI（人工智慧）的未來半導體應用」，讓學員們透過沉浸式體驗，親身感受未來科技的震撼。 ...點擊看更多

The "2026 Taiwan Tech Materials Science Summer Camp", organized by the Department of Materials Science and Engineering at Taiwan Tech, officially got underway. Breaking away from the traditional camp format, this year's program introduced "cross-sector industry-academia collaboration" for the first time. During the first three days, the Department of Materials Science and Engineering at Taiwan Tech provided comprehensive courses in materials science. On the fourth day, the department joined forces with international semiconductor industry leaders Micron Technology Taiwan, Merck Taiwan, the Society of Women Engineers (SWE), and Taichung Hou-Zong Senior High School to jointly organize the one-day science hands-on workshop "2026 Going Tech Summer Camp", creating an enriching learning experience for high school and vocational high school students from across Taiwan that combines theory, practical experience, and cutting-edge technology. ...more

以城南為教室 臺科大培養青年跨域實踐能力

2026-08-13

Taiwan Tech turns the south side into a living classroom to build cross-disciplinary skills.



面對快速變遷的未來社會，如何培養青年具備跨域整合、地方關懷與創新實踐能力，已成為高等教育的重要課題。國立臺灣科技大學通識教育中心於 2026 年 7 月 7 日至 7 月 10 日舉辦「2026 城人式：台科識視營（事事皆贏）—知識與視野夏校」，邀集全國 13 位高中職學生與 15 位臺科大大學部共學夥伴共同參與，以「城南學 × 沉浸式 × 成人式」為核心理念，打造結合科技人文、地方創生與自主學習的四天三夜沉浸式營隊，帶領青年走進城南地區的真實社會場域，培養面對未來世界的重要素養。本夏校幾乎匯集臺科大通識教育中心所有專任教師的投入，融合 STREAM（Science、Technology、Reading、Engineering、Arts、Mathematics）教育精神，以臺科大周邊城南文化聚落作為學習基地，透過田野踏查、議題探索、跨域實作、專題提案及團隊合作，讓學生從知識學習延伸至社會觀察，從個人思考走向公共參與，展現臺科大推動跨域通識教育與社會實踐的教育使命，以博雅教育進行跨領域營隊式學習的通識教育營隊。而本校 15 位大學部學生團隊，充分落實「大手牽小手」的共學精神，帶領來自不同縣市的高中職生一同參與「城南學」的建構過程。...點擊看更多

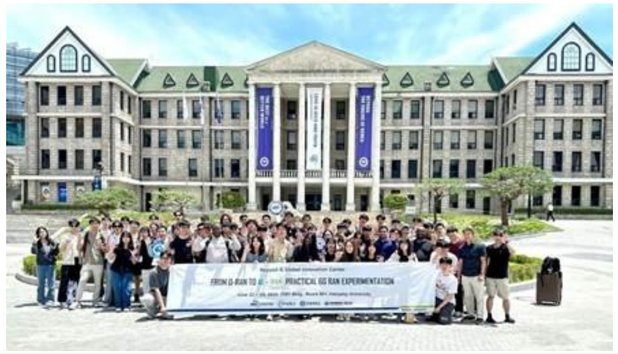
TIn the face of a rapidly changing future society, cultivating young people's abilities in interdisciplinary integration, local engagement, and innovative practice has become an important priority in higher education. From July 7 to 10, 2026, the Center for General Education at Taiwan Tech organized the "2026 Urban Learning: Taiwan Tech Knowledge and Vision Summer School (Learning for Success)", bringing together 13 high school and vocational high school students from across Taiwan and 15 Taiwan Tech undergraduate peer-learning partners. Centered on the concepts of "South Side Learning × Immersive Learning × Becoming an Adult", the four-day, three-night immersive camp integrated technology and the humanities, local revitalization, and self-directed learning. Students were guided into real-world social settings in the southern area to develop essential competencies for navigating the future world.....more

臺科大攜手韓國漢陽大學舉辦 6G RAN 實作工作坊　推動學生走向國際場域

2026-08-11

Taiwan Tech and Hanyang University host a 6G RAN workshop to connect students globally.

為鼓勵學生拓展國際視野、參與前瞻科技實作交流，臺科大電資學院與韓國漢陽大學（Hanyang University）Beyond-G Global Innovation Center 合作，於 6 月 22 日至 24 日舉辦「From O-RAN to AI-RAN: Practical 6G RAN Experimentation」三天實作工作坊，帶領學生赴韓國參與全英語課程與實驗，聚焦開放式無線接取網路（O-RAN）、AI-RAN、數位孿生（Digital Twin）及 6G 無線通訊等前瞻技術，透過跨國交流與實作訓練，培養學生接軌國際研究發展的能力。本次工作坊吸引電資學院資訊工程、電子工程、電機工程及資通科技國際學程學生等四系近



80 位學生報名，經書面審查及英文口試遴選後，最終錄取 50 名學生參與，並依年級背景分為初階與進階兩組，三天課程由行動網路與 O-RAN 基礎概念出發，逐步延伸至 O-RAN 軟體元件、數位孿生情境與 AI-RAN 最佳化應用，學生透過實際操作完成環境部署、xApp 開發及系統驗證，將課堂知識轉化為實作經驗。...點擊看更多

To encourage students to broaden their international perspectives and participate in hands-on exchanges on cutting-edge technologies, the College of Electrical Engineering and Computer Science at Taiwan Tech collaborated with the Beyond-G Global Innovation Center of Hanyang University in South Korea to organize the three-day “From O-RAN to AI-RAN: Practical 6G RAN Experimentation” workshop from June 22 to 24. Students traveled to South Korea to participate in English-medium courses and hands-on experiments focusing on emerging technologies, including Open Radio Access Network (O-RAN), AI-RAN, Digital Twin, and 6G wireless communications. Through international exchange and practical training, the workshop aimed to equip students with the capabilities needed to engage with international research and development.....more

AI 預測電池材料結構準確率達 96%　臺科大吳亮廷獲鴻海科技獎肯定

2026-08-10

Taiwan Tech researcher, Liang-Ting Wu, wins Hon Hai Award for 96% accurate AI battery predictions.



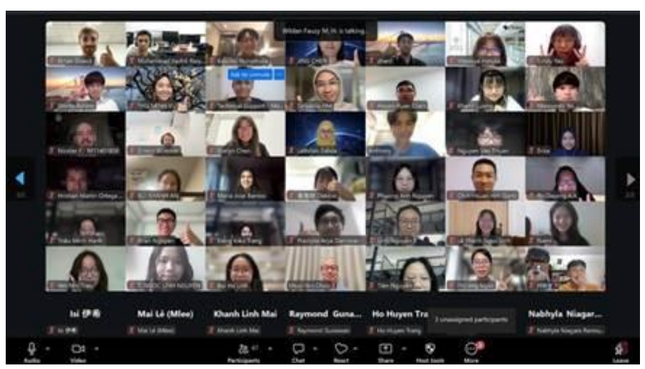
國立臺灣科技大學化工系博士生吳亮廷，在江志強教授指導下，結合人工智慧與第一原理熱力學計算，建立鈉離子電池層狀氧化物正極材料結構預測模型，可依材料組成預測其較可能形成的晶體結構，預測準確率約達 96%，有助於縮短新材料開發時間、降低試誤成本。研究成果發表於國際能源材料頂尖期刊《Advanced Energy Materials》，並在黃炳照講座教授及邱昱誠教授共同推薦下，榮獲 2026 年鴻海科技獎首屆新增應用組肯定，展現臺科大在能源材料、人工智慧與國際合作研究上的深厚實力。近年來，再生能源快速發展，如何建構安全、低成本且高效率的儲能系統，成為全球能源轉型的重要課題。目前廣泛應用的鋰離子電池雖然性能成熟，但鋰資源成本及供應限制，使鈉離子電池逐漸受到重視。由於鈉資源豐富、價格低廉，因此被視為下一世代儲能技術的重要方向。然而，鈉離子電池正極材料的設計仍面臨挑戰，其中材料最終形成的晶體結構，將直接影響電池容量、循環壽命及鈉離子傳輸效率。...點擊看更多

Liang-Ting Wu, a doctoral student in the Department of Chemical Engineering at Taiwan Tech, has developed a structural prediction model for layered oxide cathode materials used in sodium-ion batteries by combining artificial intelligence with first-principles thermodynamic calculations under the supervision of Professor Jyh-Chiang Jiang. Based on material composition, the model can predict the crystal structure most likely to form, achieving an accuracy rate of approximately 96%. The research could help shorten the development time for new materials and reduce the costs associated with trial and error. The findings were published in Advanced Energy Materials, a leading international journal in energy materials. With joint recommendations from Chair Professor Bing-Joe Hwang and Professor Yu-Cheng Chiu, Wu also received recognition in the Application Category of the 2026 Hon Hai Award, which was newly introduced that year. The achievement highlights Taiwan Tech’s strong research capabilities in energy materials, artificial intelligence, and international research collaboration. ...more.

臺科大攜手東京大學舉辦永續產業社會工作坊 促進跨域國際學術交流

2026-08-07

Taiwan Tech and University of Tokyo advance sustainable industry through global academic exchange.



國立臺灣科技大學（以下簡稱臺科大）與日本東京大學於 7 月 11 日共同舉辦「永續產業與社會聯合工作坊（Joint Workshop on Sustainable Industry and Society）」，聚焦人工智慧（AI）、物聯網（IoT）、數位轉型、智慧製造、供應鏈韌性及永續發展等前瞻議題。來自臺灣、日本及多個國家的學者、研究生與暑期實習生齊聚交流，共同探討科技創新如何回應產業升級與社會永續發展所面臨的挑戰。本次工作坊由臺科大物聯網創新中心與東京大學智慧系統設計實驗室共同規劃。原訂以實體方式進行，因受颱風影響，主辦團隊迅速調整辦理模式，將全數議程改為線上舉行，確保學術交流不中斷。東京大學師生共十人來臺參與活動，雖仍有部分海外學者因天候因素無法如期抵台，但透過數位平台，各項專題演講、研究成果發表與交流討論仍順利進行，展現跨國合作的高度韌性與彈性。...點擊看更多

On July 11, Taiwan Tech and the University of Tokyo jointly held the “Joint Workshop on Sustainable Industry and Society”, focusing on emerging topics including artificial intelligence (AI), the Internet of Things (IoT), digital transformation, smart manufacturing, supply chain resilience, and sustainable development. Scholars, graduate students, and summer interns from Taiwan, Japan, and several other countries gathered to exchange ideas and explore how technological innovation can respond to the challenges of industrial upgrading and sustainable social development.The workshop was jointly organized by the Taiwan Tech Center for IoT Innovation and the University of Tokyo Smart System Design Laboratory. Originally planned as an in-person event, the workshop was moved entirely online due to the impact of a typhoon. ...more.

從家鄉苑裡出發　臺科大學生打造藺草傳承新模式

2026-08-06

Taiwan Tech students create a new model for Yuanli’s Rush Grass Heritage.

苗栗苑裡曾是臺灣藺草產業重鎮，隨著產業外移、技藝人口老化，這項陪伴地方走過百年歲月的傳統工藝，也面臨傳承斷層。國立臺灣科技大學設計系碩士生賴憲澤，從家鄉出發，結合設計專業與地方實務經驗，嘗試以「制度設計」重新思考藺草文化的傳承方式，不只保存一項工藝，也希望建立一套讓更多人能參與、學習與延續的機制。榮獲日本 GOOD DESIGN AWARD 2025（日



本優良設計獎)「地域構想」類別之 BEST100 百佳設計獎，並摘下 GOOD FOCUS AWARD [NEW BUSINESS DESIGN]優秀焦點獎的雙重榮譽。賴憲澤在大學畢業後返回苗栗苑裡，並加入台灣蘭草學會，兩年多來負責平面文宣、網站建置、蘭草教育教材規劃及創新體驗設計等工作，逐步將設計專長帶進地方文化推廣。身為苑裡人，他大學到臺北念書時，曾刻意淡化家鄉背景，不太願意主動提起自己來自苗栗。...點擊看更多

Yuanli, Miaoli, was once a major center of Taiwan's rush grass industry. As the industry moved elsewhere and the population possessing traditional craft skills grew older, this traditional craft, which has accompanied the local community for more than a century, has also faced a gap in transmission. Hsien-Tse Lai, a master's student in the Department of Design at Taiwan Tech, has started from his hometown and combined his design expertise with practical experience in the local community to explore how "system design" can offer a new way of thinking about the transmission of rush grass culture. His goal is not only to preserve a traditional craft, but also to establish a mechanism that enables more people to participate in, learn, and carry on this cultural heritage. His project received the BEST 100 Award in the Regional Design category of the GOOD DESIGN AWARD 2025 (Japan Good Design Award) and also received the GOOD FOCUS AWARD [NEW BUSINESS DESIGN], earning two prestigious honors. ...more.