

HOME / NEWS / Latest News

Latest News

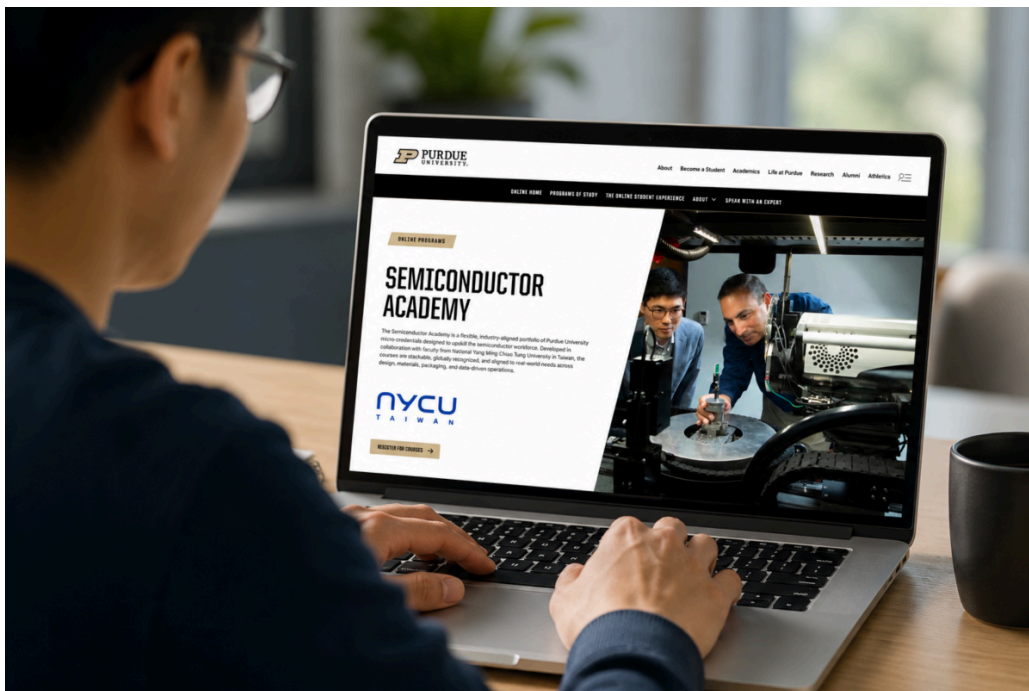
</>
XML

{...}
JSON

College Features

Publish Date : 2026-05-07

NYCU and Purdue Launch Global Semiconductor Academy to Advance AI and Chip Talent Development



To learn more about the Semiconductor Academy, visit [the program webpage](#).

Edited by Chance Lai

As the global semiconductor race accelerates in the AI era, National Yang Ming Chiao Tung University (NYCU) and

Flexible Learning for a Rapidly Growing Industry

According to Purdue, the

Purdue University have jointly launched the Semiconductor Academy, a new online professional education initiative designed to cultivate next-generation semiconductor talent and expand access to industry-focused learning worldwide.

The collaboration brings together two institutions located at the heart of critical semiconductor ecosystems — Taiwan, home to the world's most advanced chip manufacturing industry, and the United States, a global leader in semiconductor research, design, and innovation. Developed jointly by NYCU and Purdue, the Semiconductor Academy will offer flexible online courses covering key areas across the semiconductor supply chain, including chip design for AI, semiconductor materials and devices, advanced packaging, reliability, IC design, EDA, and semiconductor industry management.

The program is designed for working professionals, engineers, and learners seeking to deepen their expertise or enter the rapidly evolving semiconductor

Semiconductor Academy is part of a broader expansion of semiconductor professional education aimed at addressing rising workforce demands across the global chip industry. Each course in the academy will feature approximately 2 hours of focused learning content and be accessible through flexible online formats. The academy will also be featured on SEMI University (SEMI U), a global digital learning platform serving semiconductor professionals and organizations worldwide.

Topics planned for the initial course offerings include:

- Chip Design for AI
- Packaging, Reliability and Characterization
- IC Design, EDA and Analog
- Semiconductor Materials and Devices
- Supply Chain Management and Leadership in the Semiconductor Industry

Additional semiconductor professional education courses developed by Purdue are expected to

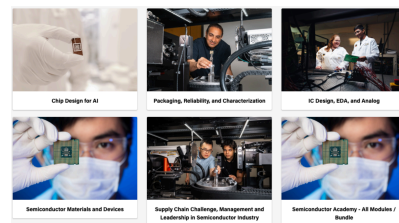
field. Courses will be delivered online in a modular, stackable format, allowing learners to tailor their studies to their professional goals and industry needs.

Bringing Taiwan's Semiconductor Expertise to a Global Classroom

As one of Taiwan's leading universities in electrical engineering, computer science, photonics, AI, and semiconductor research, NYCU has long played a central role in nurturing talent for Taiwan's semiconductor industry and the Hsinchu Science Park ecosystem.

Through the Semiconductor Academy, NYCU faculty will contribute academic expertise and real-world industry perspectives drawn from Taiwan's globally influential semiconductor ecosystem, offering international learners a unique window into the technologies and manufacturing practices shaping the future of chips and AI computing.

launch in summer 2026, including transistor fundamentals, nanolithography, RF design, and data analysis for semiconductor applications. The launch ceremony for the Semiconductor Academy was held via livestream between Purdue and NYCU, underscoring the growing importance of international collaboration in building the future semiconductor workforce.



Covering topics from chip design and semiconductor materials to packaging and supply chain management, the Semiconductor Academy's two-hour modular courses allow learners to build industry-relevant skills at their own pace.

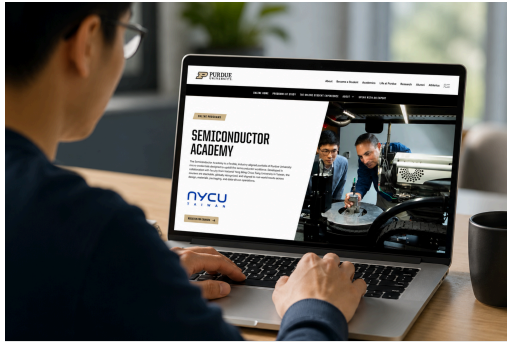
Demonstrating NYCU's

strong contribution to the initiative, 18 of the academy's initial 21 online courses were developed by NYCU faculty, while Purdue contributed three courses. The curriculum reflects NYCU's deep expertise across semiconductor research, engineering education, and industry collaboration, further reinforcing Taiwan's critical role in the global semiconductor supply chain.

"Semiconductor innovation requires a deep understanding of the entire technology stack," said Mark Lundstrom, Don and Carol Scifres Distinguished Professor of Electrical and Computer Engineering at Purdue University. "By bringing together the strengths of both Purdue and NYCU, the Semiconductor Academy provides learners with a rigorous, globally informed perspective on the technologies shaping the future of the industry." The collaboration also reflects NYCU's broader internationalization strategy and its commitment to strengthening global partnerships in

semiconductors, AI, and emerging technologies.

Related Image(s) :



cover image

← Back

Open/Close

NYCU NATIONAL
YANG MING CHIAO TUNG
UNIVERSITY

Contact Us



Yangming Campus

📍 Address :

No. 155, Sec. 2, Linong St. Beitou Dist., Taipei City 112304, Taiwan [📍](#)

☎ Phone : +886-2-2826-7000

Chiaotung Campus

📍 Address : No. 1001, Daxue Rd. East Dist., Hsinchu City 300093, Taiwan [📍](#)

☎ Phone : +886-3-5712121

Copyright © 2023 Office of International Affairs, NYCUT. All rights reserved.



Privacy and Security Policy | Update Date : 2026-05-28