



**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

NTU Academy for Professional
and Continuing Education

INDUSTRY-ALIGNED



FlexiMasters in

Integrated Circuit Design

NATION-WIDE AGENDA

To increase the digital IC design talent pool in Singapore to fill the growing demand in novel chip designs for fabless semiconductor companies in smart, high-performance technologies.

Source: Singapore Economic Development Board, 2025.

SUPPORTED BY

EDB:
SINGAPORE

 **SSIA**
Singapore Semiconductor Industry Association

PROGRAMME HIGHLIGHTS

This FlexiMasters programme is conceived and developed by Nanyang Technological University and fabless semiconductor companies in Singapore in collaboration with the Singapore Semiconductor Industry Association (SSIA) to train and develop more IC design talent with industry-ready skill sets.

Learning Pathway

70% funded*

For all Singapore Citizens (SCs) and Permanent Residents (PRs).
For self-sponsorship: NTU alumni may utilise their \$1,600 Alumni Course Credits for each course.

Self-funded*

SCs & PRs enjoy \$2,500 subsidy (+ an additional \$5,000 for applicants requiring financial aid).
NTU alumni will receive 10% tuition fee rebate.

Bridging Courses (78h)

- For individuals who do not possess direct knowledge in IC
- 2 courses



FlexiMasters in Integrated Circuit Design (195h)

- Choose any 5 courses from the Basic & Advanced courses
- Represents 50% AU load of a Master's degree



Master of Science in Integrated Circuits and Microelectronics (195h)

- FlexiMasters graduates with as minimum Grade Point of 2.5 can complete the remaining 15 AUs to attain a Master's degree within 5 years

*Terms and conditions apply.

Who should attend

- Recent graduates in electrical engineering, electronics or related engineering disciplines
- Practising engineers and R&D managers in the IC / semiconductor sector (≤ 2 years of working experience)
- Technical staff seeking structured upskilling in digital IC design

Programme Structure

Please check the webpage in the QR code for admission criteria.

Bridging Courses
Digital IC Design Theory Digital IC Design with CAD
FlexiMasters Courses (Basic)
Digital IC Frontend Design Digital IC Backend Design Digital IC Design for Testability
FlexiMasters Courses (Advanced)
Digital Integrated Circuit Design Computer Architecture FPGA Prototyping IC Verification Theory IC Verification Lab

Career Prospects

- Digital IC Design Engineer (Frontend)
- EDA/Design Automation Engineer
- Physical Design/Implementation Engineer (Backend)
- Verification Engineer
- Roles in system-on-chip (SoC) integration & validation

Scan here for programme page →



<https://www.ntu.edu.sg/pace>

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