New Southbound Policy
Mandarin and Semiconductor
Short-term Study Program

Ministry of Foreign Affairs
X
National Taipei University of Technology
Program overview

In an effort to encourage outstanding students from the Indo-Pacific to study in Taiwan and explore the diverse culture of Taiwan, the Ministry of Foreign Affairs initiated the New Southbound Policy Short-term Study Program.

Through this program, students will take semiconductor-related courses along with Chinese language courses provided by National Taipei University of Technology and the Chinese Language Training Center.

July 2022
Application deadline: 31st July

August 2022
Students apply for visa

September 2022 to January 2023
Arrival: 1st September
Quarantine: 1st September to 8th September
Courses: 12th September to 15th January 2023

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## Chinese Course

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Beginner Chinese</th>
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<tbody>
<tr>
<td>Course Duration</td>
<td>8 hours/week for 18 week, 144 hours in total</td>
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**Course Description**

This class is for students who have never studied the Chinese language. The courses include Pinyin and basic vocabulary and grammar.

**Course Outline**

- **Week 1:** Chinese pronunciation and characters writing
- **Week 2:** Lesson 1 Welcome to Taiwan
- **Week 3:** Lesson 2 My family
- **Week 4:** Lesson 3 What are you doing over the weekend
- **Week 5:** Lesson 4 Excuse me, how much does that cost in total
- **Week 6:** Lesson 5 Beef noodles are really delicious
- **Week 7:** Lesson 6 Their school is up in the mountains
- **Week 8:** Lesson 7 Going to KTV at 9 in the morning
- **Week 9:** Lesson 8 Taking a train to Tainan
- **Week 10:** Exam / Group report / Cultural event
- **Week 11:** Lesson 9 Where will you go for the holidays
- **Week 12:** Lesson 10 The fruit in Taiwan tastes really good
- **Week 13:** Lesson 11 I would like to rent a place
- **Week 14:** Lesson 12 How long will you be studying Chinese in Taiwan
- **Week 15:** Lesson 13 Happy birthday
- **Week 16:** Lesson 14 It’s so cold
- **Week 17:** Lesson 15 I don’t feel well
- **Week 18:** Exam / Group report / Cultural event

Besides the beginner level, CLTC also offer intermediate and advanced Chinese courses. After completing the language course, CLTC will provide a certificate which indicates the study period, hours and grades. Students may transfer credits according to the regulations of their universities.

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## Semiconductor Course

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Introduction to Semiconductors and Circuit Design</th>
</tr>
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<tbody>
<tr>
<td>Course Duration</td>
<td>3 hours/week for 18 weeks, 54 hours in total</td>
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### Course Description

Semiconductor circuits have recently become the most important part of providing first-hand information in Artificial Intelligence (AI) and the Internet of Things (IoT). This course covers the fundamentals of various semiconductor sensors (e.g. chemical modification, electrochemistry, optics and semiconductor technology) and signal analysis, and involves Arduino circuit experiments with group discussions, in order for students to further understand the practical applications of sensor circuits.

### Course Outline

- **Week 1:** Introduction to the course
- **Week 2:** Semiconductor Physics
- **Week 3:** Semiconductor materials and applications
- **Week 4:** Basic circuit design
- **Week 5:** Electronic Circuity
- **Week 6:** Arduino experiment 1: Basic circuit design
- **Week 7:** Arduino experiment 2: Digital signals
- **Week 8:** Arduino experiment 3: Analog signals
- **Week 9:** Mid-term examination
- **Week 10:** Arduino experiment 4: LED mixed-light control
- **Week 11:** Arduino experiment 5: Optical sensors and music
- **Week 12:** Arduino experiment 6: Temperature sensors
- **Week 13:** Arduino experiment 7: LCD monitors
- **Week 14:** Arduino experiment 8: Motor control
- **Week 15:** Arduino experiment 9: Triboelectric nanogenerator
- **Week 16:** Arduino experiment 10: Pressure sensors
- **Week 17:** Final presentation I
- **Week 18:** Final presentation II

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## Semiconductor Course

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Nanotechnology and Semiconductor Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Duration</td>
<td>3 hours/week for 18 weeks, 54 hours in total</td>
</tr>
</tbody>
</table>

### Course Description

Recently, the semiconductor industry has become one of the most important industries. This course covers the basic knowledge, processes and recent development trend of semiconductors, and features a group of known scholars and experts as keynote speakers to talk about the semiconductor sector. The topics include semiconductor materials, organic semiconductors, sensors, device applications, energy and panels, etc., in order for students to further understand the basics and applications of semiconductors.

### Course Outline

- **Week 1**: Introduction to the course
- **Week 2**: Semiconductor Physics
- **Week 3**: Semiconductor processes I
- **Week 4**: Semiconductor processes II
- **Week 5**: Semiconductor processes III
- **Week 6**: Semiconductor processes IV
- **Week 7**: Advanced processes
- **Week 8**: Nanomaterials
- **Week 9**: Mid-term examination
- **Week 10**: Keynote speech 1
- **Week 11**: Keynote speech 2
- **Week 12**: Keynote speech 3
- **Week 13**: Keynote speech 4
- **Week 14**: Keynote speech 5
- **Week 15**: Keynote speech 6
- **Week 16**: Keynote speech 7
- **Week 17**: Final presentation I
- **Week 18**: Final presentation II

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Other Courses

Students can also participate in other courses at Taipei Tech, please check the courses information on the following website.

https://aps.ntut.edu.tw/course/en/ShowENSubject.jsp

Enterprise visits

Students will visit famous high-tech companies in Taiwan.

Field trips

CLTC will hold field trips, leading students to visit famous scenic spots in Taiwan.
### Funding details

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Air ticket subsidy</td>
<td>NTD 5,000</td>
</tr>
<tr>
<td>Quarantine hotel</td>
<td>NTD 21,000 (7 days)</td>
</tr>
<tr>
<td>PCR Test</td>
<td>NTD 7,000 (2 tests)</td>
</tr>
<tr>
<td>Dormitory</td>
<td>NTD 3,450 (5 months)</td>
</tr>
<tr>
<td>Courses tuition and enterprise visits</td>
<td>NTD 27,000/month</td>
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<tr>
<td>Field trip</td>
<td>NTD 31,000 (5 times)</td>
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<tr>
<td>Allowance</td>
<td>NTD 8,000/month</td>
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</tbody>
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### Eligibility

1. The applicant should be a sophomore, junior or senior at one of the universities in New Southbound Policy countries.

2. The applicant should not be a PRC (including Hong Kong and Macau) passport holder or a Taiwan (ROC) passport holder.

3. The applicant should not be a recipient of any financial aid from the government, agencies or educational institutions of Taiwan.

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Application

1. Fill out the application form. (https://forms.gle/dPP3JJAYTAMsbK5k7)

2. Send the following documents to cltc@mail.ntut.edu.tw
   a. Your CV
   b. A copy of your passport profile page
   c. Your profile photo in JPEG format
   d. A copy of your Enrollment Verification

3. Successful applicants will be notified and receive an admission letter from the CLTC via email.