



CONCISE

HIGH TECH

INNOVATION

Study at CCU in Taiwan

Internship, Programs, and Scholarship

Prof. Van-Linh Nguyen
College of Engineering
National Chung Cheng University (CCU)
Taiwan



Why we are here?

- To introduce National Chung Cheng University (CCU)
- To introduce our international internship programs
- To introduce our programs
- To introduce our scholarship opportunities
FULL SCHOLARSHIP!



Quick Understanding of CCU and CoE

Let's watch a video available
on youtube

<https://www.youtube.com/watch?v=yFXNLSBuJd4>



National Chung Cheng University



- ✓ One of the **largest** national universities in Taiwan
- ✓ Established as a research-oriented comprehensive university in **central** Taiwan
- ✓ Top-10 university in Taiwan in the field of Engineering
- ✓ 12,000 Students and ~600 Faculty and ~500 Staff members
- ✓ Voted as the most beautiful campus by Yahoo Taiwan.





Academic Performance



2019 Emerging Economies University Rankings

- Ranked #301–350

2023 QS World University Rankings

- Asian University Ranking #167
- World University Ranking #801-1000

2023 Times Higher Education University Rankings

- Young University Rankings #401-500
- Asia-Pacific University Rankings #501-600



2024 QS World University Rankings

- Asian University Ranking #174
- World University Ranking #901-950



2024 Internship Programs at CCU

- Mainly provided for final-year UG, Master, or Ph.D students
- Intern Period: 8 weeks-6 months
- Fee-free, supported by TEEP Program (MOE) and IIPP (NSTC)

Scholarship: covering on-campus accommodation, living stipend, and airfare reimbursement

- Introduction and Topics:

<https://reurl.cc/QZDNvb>

- **2024 internship program:**
- Website & Application:
<https://sites.google.com/view/ccu-coe-internship/home>

2nd round application (Jan 26-March 3rd)



NATIONAL CHUNG CHENG UNIVERSITY

2024 CCU/CoE

INTERNATIONAL INTERNSHIP PROGRAM

COLLEGE OF ENGINEERING (CoE)



2023 International Internship Program (>100 students)

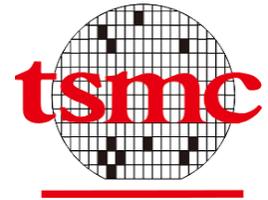


College of Engineering

MS Program in Advanced Engineering (ENG)

PHD Program in Advanced Engineering (ENG)

International Master Programs on STEM, Semiconductor, and manufacturing (ENG)



TSMC Program

MEDIATEK Program

• BS, MS, and PHD Programs

Department of Computer Science and Information Engineering (CSIE)

Department of Electrical Engineering (EE)

Department of Communications Engineering (CommE)

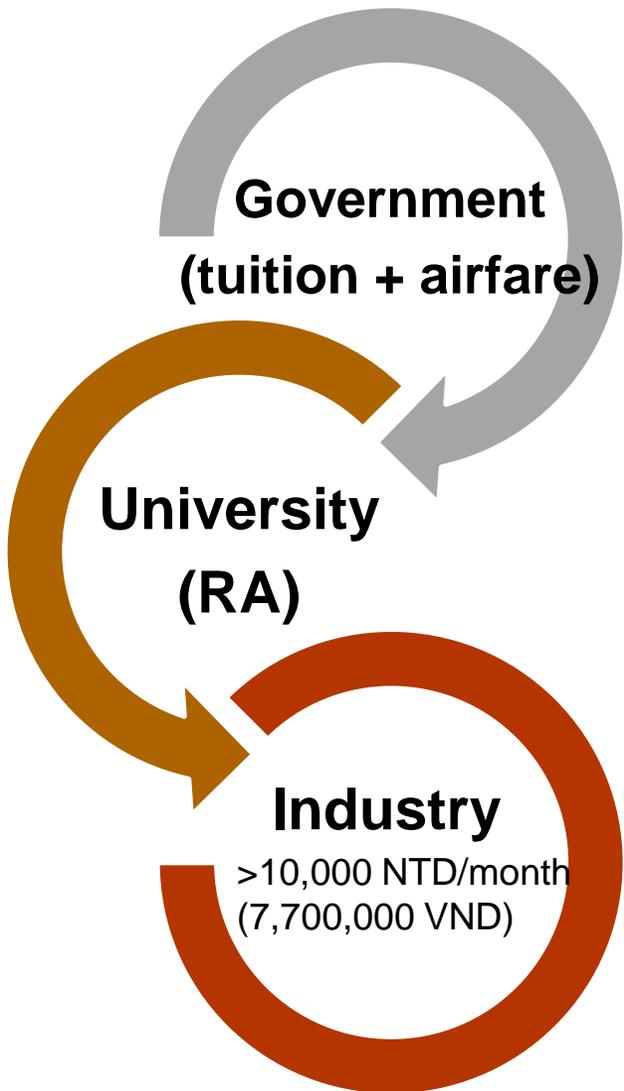
Department of Mechanical Engineering (ME)

Department of Chemical Engineering (ChE)

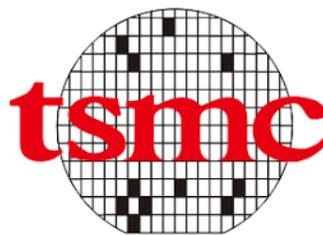
Graduate Institute of Opto-Mechatronics (OME)

Application period {
• Feb. 1 - Mar. 15 (Fall semester)
• Sept. 1 - Oct. 15 (Spring semester)

International Master Programs



- Under application (will launch in 2024)
- STEM, Semiconductor, Manufacturing
- Full scholarship
- Work at Taiwan after graduation





On-going main projects

- Research on 5th Generation Mobile Cellular Networks with Large-Scale Active Antenna System (MOST & **ASUS**)
- 5G mmWave dead-zone solver-**Reconfigurable Intelligent Surface (MediaTek)**
- Network Technology in Cloud Data Center (MOST)
- Applying Sensor Network in Intelligent Sensing System for Manufacturing (MOE)
- Wireless Navigation System for Minimally Invasive Spinal Surgery (**Metal Industries Research and Development Centre**)
- RF-front-End System Design for 5G Communication
- Millimeter-wave beam forming system for wireless broadband communications (**Taiwan-Canada** bi-lateral joint project),
- Smart Grid and Renewable Energy (MOST)



WNC Scholarship

- Maximum of **6 students** from Vietnam each year (including fall semester and spring semester)
- Living allowance support from WNC in a two-year study: **monthly NTD10,000**.
- Tuition and Miscellaneous Fees/ On-Campus Accommodation Fee will be waived by CCU Scholarship Award (Students must maintain an average grade of semester over 75 for master program, in order to be eligible for the CCU scholarship every semester).
- Students will be required to **work with WNC (full-time position) for at least two years either in Taiwan or in Vietnam** (Neweb Vietnam Co., Lô đất CN01, KCN, III, Đồng Văn, Duy Tiên, Hà Nam) upon successful completion of their master degree at CCUEE



Group 2: Electrical Power, Renewable Energy, and Power Electronics

- Focus on power management, power electronics, and diverse kinds of renewable energy
 - ✓ **Smart grids**, micro-grid, energy economics, and power quality
 - ✓ Control system, **motor** drives, and **mechatronics** integration
 - ✓ **Solar** power, **wind** power, and tide power



Solar Board



AC/DC Converter



Solar/Wind power Converter

Prof. Yuan-Kang Wu
Renewable Energy and Power System Lab

- Main topics include:
 - **New control methods for renewable energy**
 - **AI applications on renewable power forecasts and fault diagnosis**

From Vietnam
MS on-going : 3
finish : 4

PhD on-going : : 1





MS & PHD Programs and Scholarship

Living cost at CCU:
~8000 NTD/month
~7,300,000 /month

FULL SCHOLARSHIP = Free to Study at CCU

Tuition



CCU scholarship
(Unconditional)
USD 4000 /year
(~100,000,000 VND/year)

On-Campus Dorm



CCU scholarship
(Unconditional)
USD 500 /year
(~12,000,000 VND)

Living Expense



- TA and RA from professors
USD 300-1200/month
(7,300,000-29,000,000 VND)
- CCU Outstanding student scholarship
(USD 600-1300/month)
14,600,000-31,500,000 VND)

Total value >7000 USD/year (>170,000,000 VND)

All-English taught courses

■ EMI Teaching and Learning Center, College of Engineering

➤ English as a Medium of Instruction (EMI) in Higher Education

➤ **115** EMI courses in CoE in 2023

➤ **50** % faculties in CoE provide EMI courses

➤ **25** % faculties are in the EMI training courses and taking Cambridge EMI certificate.



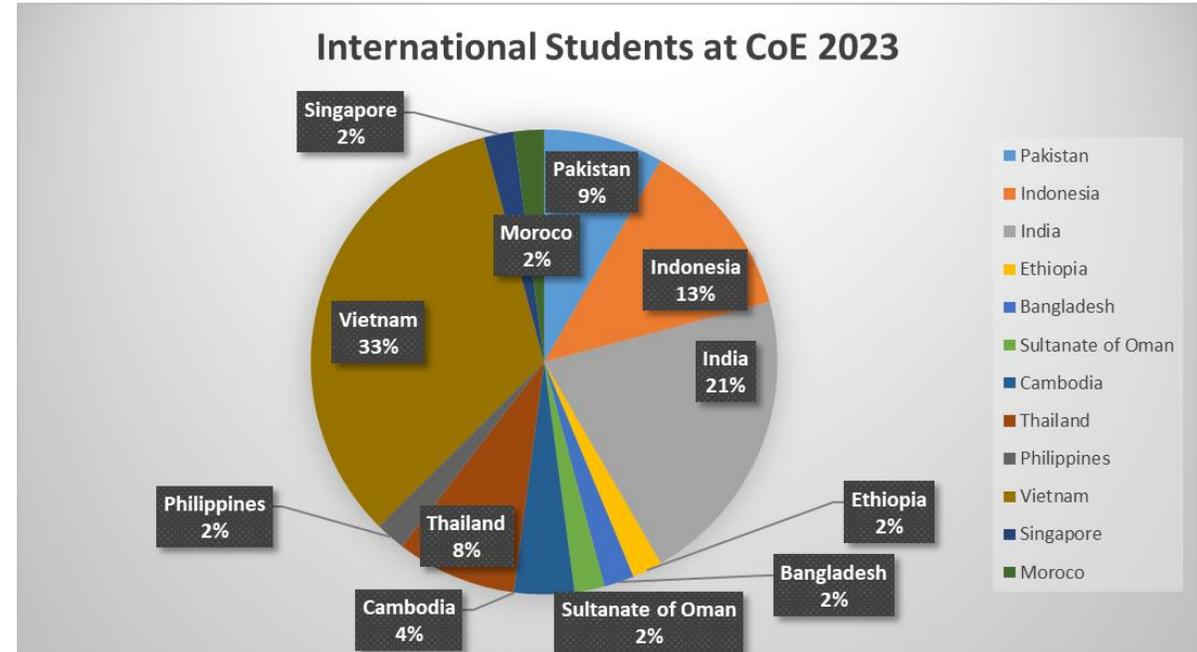
Cambridge Assessment
English



International students at CoE, CCU

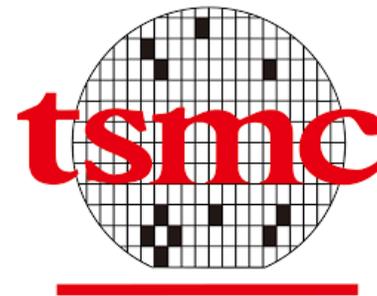
- international PhD and MSc students at CoE in 2023

- 33 % Vietnam
- 21 % India
- 13 % Indonesia
- 9 % Pakistan
- 8 % Thailand



- Stay and Work in Taiwan

- After graduation, many students stay and work in Taiwan
- TSMC and MediaTek Programs
(>1.5 M NTD or >1,200,000,000 VND
annual salary for master students)

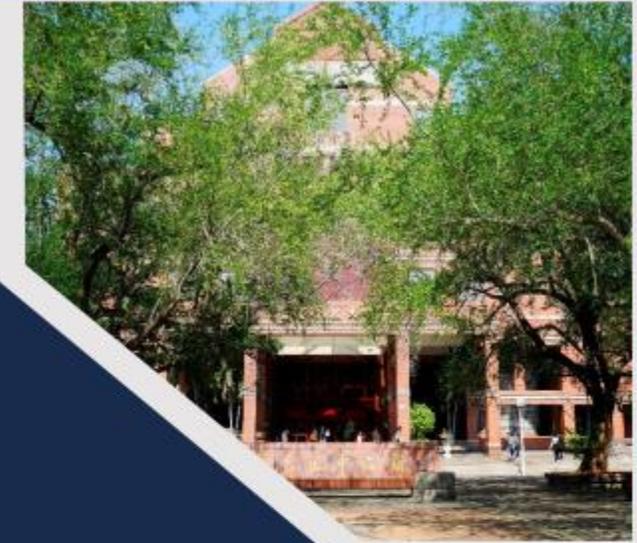


NATIONAL CHUNG CHENG UNIVERSITY

Master's & Doctoral Programs in COLLEGE OF ENGINEERING

FIELDS OF STUDY

- ✓ Computer Science and Information Engineering
- ✓ Electrical Engineering
- ✓ Mechanical Engineering
- ✓ Opto-Mechatronics
- ✓ Chemical Engineering
- ✓ Communications Engineering
- ✓ Advanced Manufacturing Systems



ABOUT THE
SCHOLARSHIPS

ADVANTAGE

- ✓ Full Scholarship
-full tuition waiver, free dormitory, RA
and TA assistantship
- ✓ English-taught Courses
Available
- ✓ Top 10 College in
Engineering Field in Taiwan
- ✓ Low Living Expenses

EASY ONLINE APPLICATION

- ✓ Feb. 1 - Mar. 15 (Fall semester)
- ✓ Sept. 1 - Oct. 15 (Spring semester)



BOOK YOUR
SEATS NOW

<https://reurl.cc/Do8yzQ>

Language Proficiency Requirements: CEFR B2



COLLEGE OF ENGINEERING

Address: 168 University Rd., Min-Hsiung, Chia-Yi

621301 Taiwan, R.O.C.

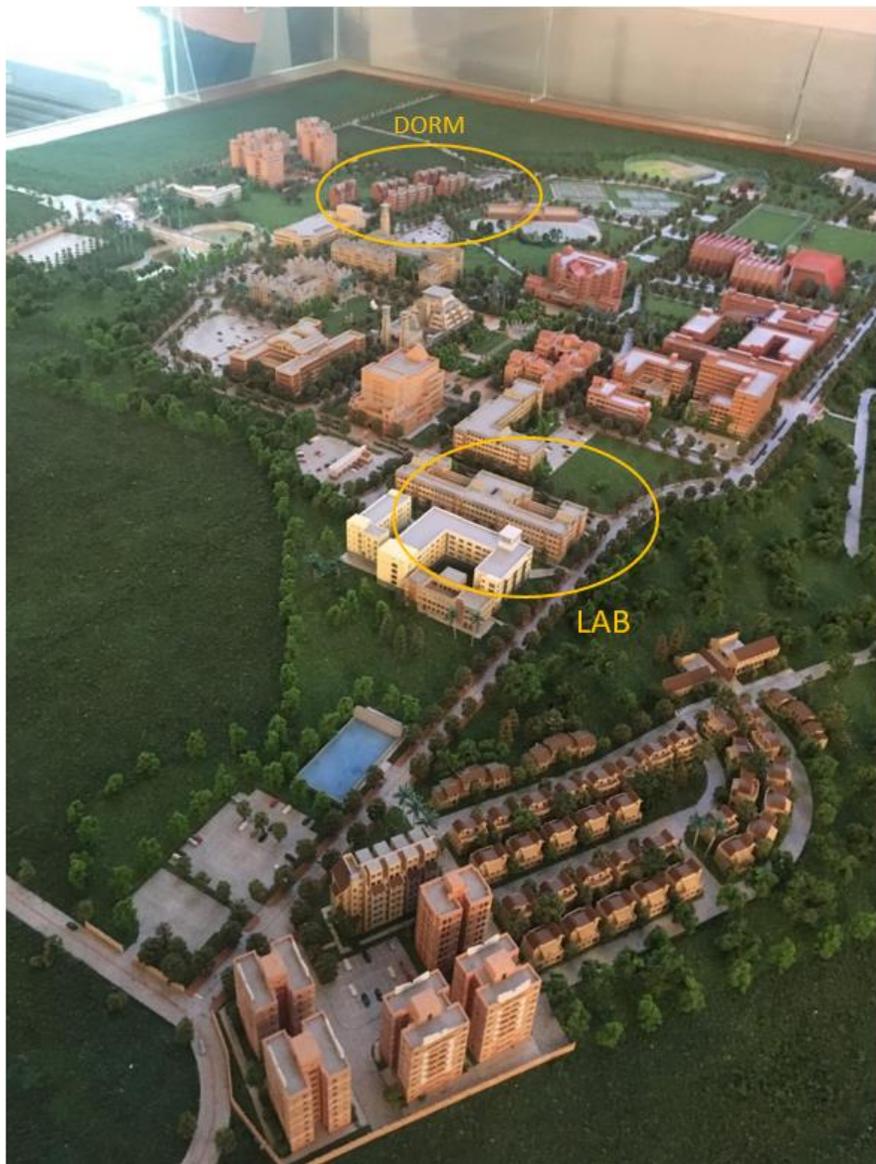
Tel: 886-5-2720411 ext 23001 Fax: 886-5-2720729

E-mail: coleng@ccu.edu.tw

CCU Campus



Environment

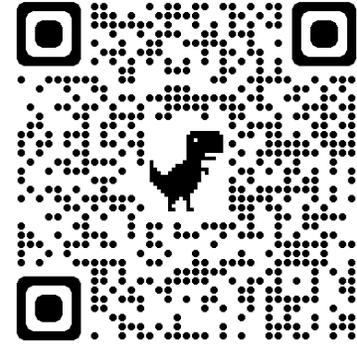


Lab



Spring 2025 CISLab scholarship

Lab website



- CISLab/CCU is home of
 - ✓ 2 foreign Ph.D. students
 - ✓ 9 Msc (Taiwan, Vietnam, Thailand)
 - ✓ 6 interns (TEEP 2023, IIPP 2023) + **25 interns** (TEEP 2024)
 - ✓ 8 undergraduate students
- Goals:
 - ✓ Develop SOTA prototypes
 - ✓ Publish top journals/conferences: COMMAG, T-ITS, TVT, JNCA, ICC, GlobeCOM, VTC, partner with industry: ITRI, UK-EU Teams, and so on

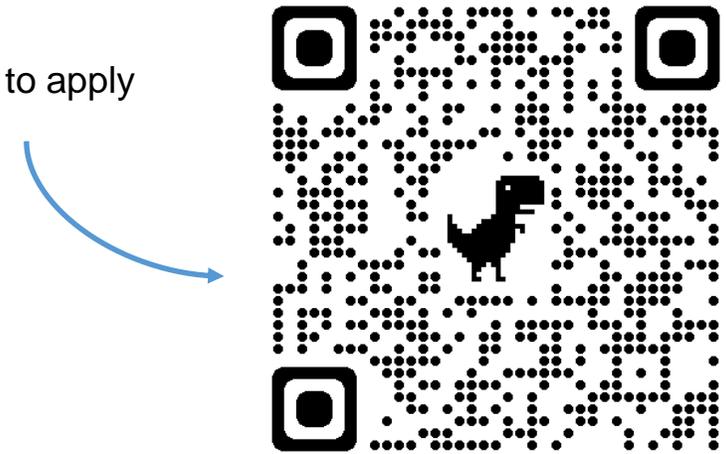


Spring 2025 CISLab scholarship

- CISLab/CCU is recruiting
 - ✓ 1 Msc/Ph.D.
- Scholarship:
 - ✓ Waive tuition fee, accommodation
 - ✓ Monthly stipend: **NT\$ 12,000+/month**

(Avg. living cost at CCU: NT\$ 8,000/month)
- Topics:
 - ✓ **AI:** Autonomous Driving, Superintelligence
 - ✓ **Cybersecurity:** Intrusion Detection, 6G, UAV
 - ✓ **Wireless communications:** Localization, Sensing, SATCOM
- Highly recommend
 - ✓ Strong interest in CS, AI, and mathematics, optimization
 - ✓ Strong motivations to pursue research studies

How to apply



Application Period

- Spring Semester: Sep 1st ~ Oct 15th
- Fall Semester: Feb 1st ~ Mar 15th)

Late deadline:

encourage you to apply for interns



Apply for Spring 2025 scholarship

2024-2025 Internship Programs

- **Applicants (Ưu tiên Sinh viên, Giảng viên)**

- Junior, senior, master, PhD students
(~100 intern students in 2023)

- **Duration (Thời gian thực tập)**

- 2~6 months

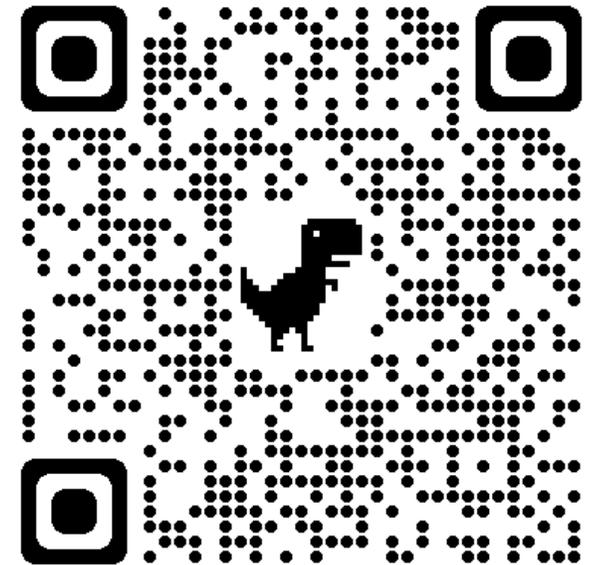
- **Scholarship**

- USD 375 ~ 470/month

- **To cover (Hỗ trợ toàn bộ chi phí)**

- ❑ **Airfare** NT 10,000 / round trip (vé máy bay khứ hồi)
- ❑ **Dormitory** NT 360 / week (ký túc xá)
- ❑ **Living expense** NT 6000 / month (sinh hoạt phí, ăn uống)

Cách nộp hồ sơ có thể xem tại Q&R + link sau



Deadline: April 15th, 2024

Starting date: any time between
Oct 2024 ~ April 2025

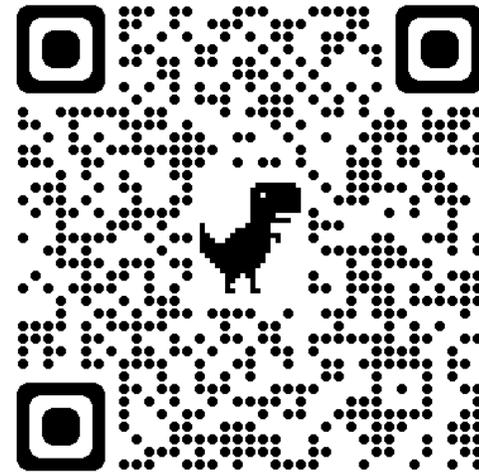
Application information and links

**2024/2025 internship
application**



<https://reurl.cc/4jZ24L>

**Master and PHD
Degree program
application**



<https://reurl.cc/eL1jmW>

CCU and AIM-HI scholarship

Details on CCU & AIM-HI can be seen at Q&R Code



CCU



AIM-HI



Request for information about the internship and degree programs at CoE,CCU



<https://reurl.cc/NGMbqn>



Feel free to fill in your information and our staff will contact you for detailed information

**Welcome to Join us
to Build Your Bright Future!**



- **Backup**

Current Topics for internship (Updating)

1. Trustable Artificial Intelligence for Critical Applications and 6G Security
2. A Study of Grid Forming Inverter-based Resources for Low-Inertia Microgrid
3. Computer vision applications based on deep learning techniques
4. Impulse Radar Imaging System, mmWave/RF Intergrated Circuit design and Energy Harvesting
5. Renewable Energy Integration: Power System Analyses, Power Conversion or Intelligent Control
6. Silicon photonics and optical biosesnors
7. Optical monitoring system for metal additive manufacturing
8. Effect of operating conditions on the performance of an all-vanadium redox flow battery
9. Measurements of densities of liquid-phase reactive species generated by atmospheric pressure plasma jets
10. Interdisciplinary opto-mechanical integration
11. Study of lithium ion battery, lithium sulfur battery, metal-air battery, fuel cell and supercapacitor

Programs at College of Engineering



Department of Computer Science and Information Engineering (BS, MS, Ph.D.)

- ✓ Networking, Cloud Computing and Big Data
- ✓ IoT, Cyber-Physical Systems, and SoC
- ✓ Multimedia Signal Processing



<https://cs.ccu.edu.tw/?Lang=en>



Department of Electrical Engineering (BS, MS, Ph.D.)

- ✓ Computer Engineering
- ✓ Signal Processing & multimedia Communication
- ✓ Systems on Chip
- ✓ Power Electronics and Power Systems
- ✓ Electromagnetic Integrated Circuits



<https://ee.ccu.edu.tw/?Lang=en>

Programs at College of Engineering



Department of Mechanical Engineering (BS, MS, Ph.D.)

- ✓ Structural Mechanics and Advanced Materials
- ✓ Machine Design and Manufacturing
- ✓ Fluid Mechanics and Thermo-Engineering
- ✓ Automation and Control



<https://deptime.ccu.edu.tw/?Lang=en>



Department of Chemical Engineering (BS, MS, Ph.D.)

- ✓ Biochemical and Tissue Engineering
- ✓ Nanomaterials and Process Engineering
- ✓ Polymers Science and Engineering



<https://che.ccu.edu.tw/?Lang=en>

Programs at College of Engineering

Department of Communications Engineering (BS, MS, Ph.D.)

- ✓ Communication/Computer networking
- ✓ Wireless Communication System
- ✓ Signal Processing & multimedia Communication
- ✓ Electromagnetic Integrated Circuits



<https://comm.ccu.edu.tw/?Lang=en>

Master/Doctoral Programs in Advanced Manufacturing Systems (AMS)(AIM-HI research center)

- ✓ Integration of multidisciplinary knowledge including mechatronics, precision machining and manufacturing, cloud computing, and artificial intelligence



<https://aimhi.ccu.edu.tw/p/426-1017-3.php?Lang=en>