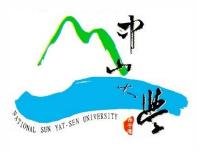




International Master's Program in Telecommunication Engineering (IMPTE)





National Sun Yat-sen University





In 2016, NS YSU is ranked in the range of 101-150 according to Academic Ranking of World Universities (ARWU) in Engineering/Technology and Computer Sciences

CWCU of Shanghai Jiao Tong University

IMPTE

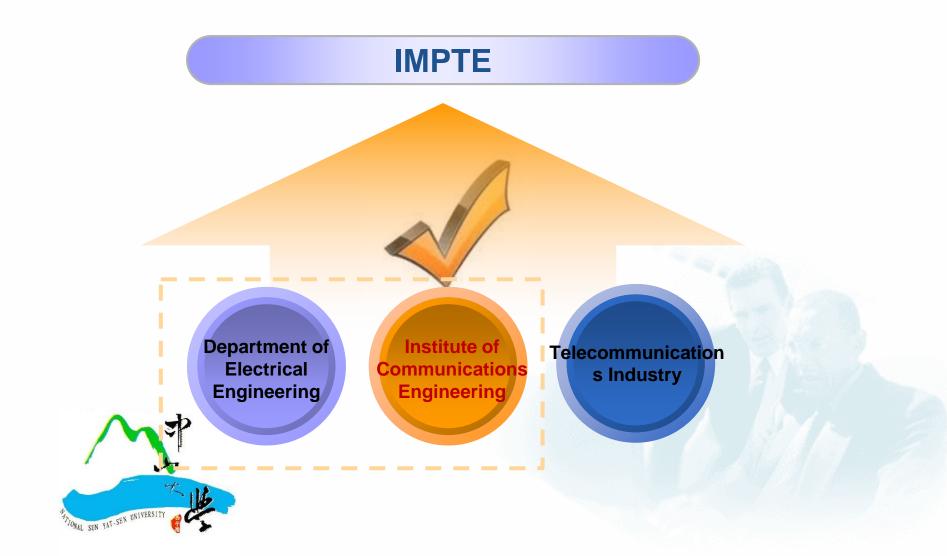




- International Master's Program in Telecommunication Engineering (IMPTE) is founded with the main goal of training its students to have global vision and professional engineering skills in the telecommunication area.
 - □ the first of its kind in Taiwan
 - offers opportunities for internships in the local telecommunication industry
- We aim at training our students to become truly competitive in the job markets of their own countries.



Faculty of IMPTE





Faculty - Systems Group

Title	Name	Educational background	Specialty
Professor	Chih-Peng Li	Cornell University	Wireless Communications, Spread Spectrum Communications, Communication IC Design, Computer Networks
Professor	Tsang-Yi Wang	Syracuse University	Wireless Communications, Wireless Sensor Networks, Distributed Detection and Estimation
Professor	Chao-Kai Wen	National Tsing Hua University	Wireless Communications, Machine learning
Associate Professor	Fan-Shuo Tseng	National Chiao Tung University	Wireless Communications, Cooperative Transceiver Design, MIMO system
Assistant Professor	Wan-Jen Huang	University of Southern California	Cooperative Communications and Networking, MIMO Communication System, Estimation and Detection
Assistant Professor	Yen-Ming Chen	National Tsing Hua University	Wireless Communications, Error-Correcting Codes, Biometrics



Faculty – Wireless Group

Title	Name	Educational background	Specialty
Professor	Kin-Lu Wong	Texas Tech University	Electromagnetics Theory, Antenna Theory
Professor	Chih-Wen Kuo	University of Texas at Austin	Microwave circuits, Numerical Electromagnetics, Electromagnetic Compatibility
Professor	Tzyy-Sheng Horng	University of California, Los Angeles	F SOC/SiP, Digitally Assisted RF Technology, Microwave Components and Systems
Professor	Ken-Huang Lin	University of Illinois at Urbana-Champaign	Electromagnetic Wave Propagation, Electromagic Compatibility, Mobile Communications
Professor (Chairman)	Lih-Tyng Hwang	University of Pennsylvania	Design, fabrication, and finite-element analysis for laser module Packaging, Highspeed laser module Packaging, Novel materials for DWDM components and electromagnetic shielding
Associate Professor	Chie-In Lee	University of California, Los Angeles	Microwave Circuits and Devices



Research Highlight

A novel portable microwave Doppler radar

- Attracted a company, Vitalmetric LLC, in Florida, USA
- A license fee of 200 million USD and annual royalty of 3% global sales revenue





Research Highlight

A world-leading 8-antenna/12-antenna array system

- Promising for use in the future 5G smartphone
- Throughput is 30 times higher than that of today's 4G smartphone



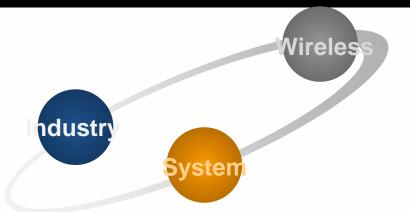


Institute of Communications Engineering at NSYSU

- The Institute of Communications Engineering was founded in 2001.
 - three IEEE Fellows, IEEE Institute of Electrical and Electronics Engineers
 - editorial boards of many IEEE journals, including
 - IEEE Trans. Components and Packaging Technologies
 - IEEE Trans. Microwave Theory and Techniques
 - IEEE Trans. Antennas and Propagation
 - IEEE Trans. Wireless Communications
 - IEEE Trans. Broadcasting
- The institute owns many patents and regularly transfers its newly developed technologies to local companies.
- Many alumni are outstanding leaders in Taiwan telecommunication industry.



Course Structure



First Semester

- DIGITAL COMMUNICATIONS
- DIGITAL SIGNAL PROCESSING
- ERROR CORRECTING CODES
- STATISTICAL COMMUNICATION
 THEORY
- ADVANCED DIGITAL SIGNAL PROCESSING

Second Semester

- ELECTROMAGNETIC THEORY
- MACHINE LEARNING
- INFORMATION THEORY
- COOPERATIVE COMMUNICATIONS
 AND NETWORKS
- 3D IC INTEGRATION TECHNOLOGY
 AND DESIGN FOR MOBILE DEVICES



Highlights

- Offers scholarships (~ 800 USD/month)
- Courses are lectured in English
- Combine theory and practice
 - ☐ Field trips to visit local industries
 - Opportunities for internships in local companies
- Faculty members have specialties in wide and diversified areas
 - The courses cover both telecom system design and transmissions technologies



Recruitment

Requirements

Recruitment targets: Applicants must be international students without Taiwan citizenship.

- Number of openings: 10
- Graduation requirements: A minimum of 24 credits in coursework and completion of a Master's thesis.
- Application must reach the Office of International Affairs at NSYSU before March 31.



Scholarship

MOE & MOFA Taiwan scholarship

Scholarship recipients will be given a monthly stipend of NT\$20,000~30,000 for degree programs. Recipients are responsible for all expenses during their stay in







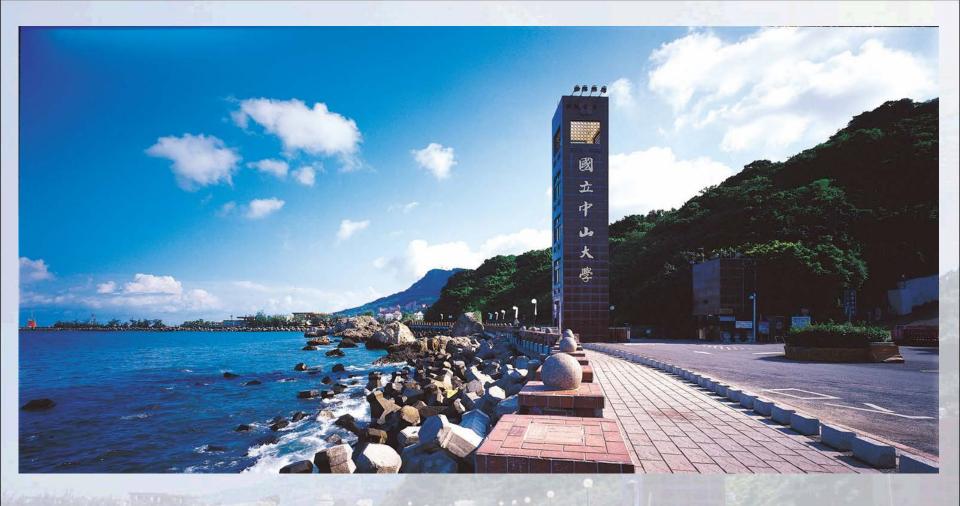


scholarship

- NSYSU scholarship
- Tuition waiver for 2 years.
- GPA of 3.38 (or a percentile score of 80%+) to receive the scholarship for the next semester.







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