



College of Electrical Engineering and Computer Science, NTUT (Academic Year 2008~2009)

International Graduate Degree Program in EECS

***(New)* Concentration in Signals, Systems and Communications Engineering**

Program Overview

This graduate program covering both M.S. and Ph.D. degrees is designed specifically for international students. All courses offered in this program are taught in English. Financial support includes tuition waiver, fellowship, and research assistantship. The program provides a wide spectrum of signal processing, systems and communications technology, emphasizing both theory and practice. The Ph.D. degree program prepares students for a variety of careers in research, advanced development, and college teaching. The MS degree program provides flexible training to the students interested in a career in engineering, technical management, and further study.

Why NTUT EECS

Located in central Taipei City, NTUT is one of the most prestigious universities in Taiwan. NTUT was founded in 1912. With outstanding reputation in professional education, NTUT is consistently ranked in the top ten by the 1000 largest companies in Taiwan.

The College of Electrical Engineering and Computer Science (EECS) is home to four departments, 100 faculty members and more than 2,700 students. A wide range of programs leading to B.S., M.S. and Ph.D. degrees are offered by EECS College. The four academic departments are Departments of Electrical Engineering, Electronic Engineering, Computer Science and Information Engineering and Electro-Optical Engineering. Currently there are more than 140 Ph.D. and 700 M.S. graduate students enrolled in this college. We also offer a specific English-lectured Gambian Information Technology Elite Program for training the undergraduates from the Republic of Gambia.

The International Graduate Program in Signals, Systems and Communications Engineering is conducted and fully supported by the EECS College, with the faculty selected from the four departments under this college. We are English-friendly and provide an ideal studying environment for foreign students. Many of our faculty members received their Ph.D. degrees in the United States. The main research areas for this program include, but not limited to, the state-of-the-art multimedia signal processing, control systems as well as communication and networking technologies, which are among the most demanding professional expertise in the worldwide job market.

Financial Aid

The following financial aid is offered for students admitted to this program.

1. Tuition is waived for the first year.
2. Fellowship of \$10,000 NT (approximately \$320 USD) per month is granted for the first year.
3. After the first year, the fellowship (including tuition waiver), research assistantship and teaching assistantship will be granted based on the academic and research performance. Normally, the fellowship duration is 2 years for MS program and 4 years for Ph.D. program

Qualifications and Applications

1. Applicants for the Ph.D. degree program must have a master's degree or its equivalent in Electrical Engineering, Computer Science, or other related fields from an accredited institution by August 2008.
2. Applicants for the M.S. degree program must have a bachelor's degree or its equivalent in Electrical Engineering, Computer Science, or other related fields from an accredited institution by August 2008.
3. Only application documents are required. No examine or interview is needed.
4. **Application deadline: June 15, 2008**
5. Application fee: None.
6. When submitting an application, the following documents are required:
 - Application form
 - Study Plan
 - Official academic records (e.g., diplomas and transcripts) from each undergraduate or post graduate institution you have attended
 - Two letters of recommendation
 - Score of GRE (Graduate Record Examination) General Test
 - Score of TOFEL (Test of English as a Foreign Language) is required for applicants whose native language is not English.Other supporting documents such as the score of GRE Subject Test, research reports, and awards may be submitted as well.
7. For details, please refer to the website at:
http://www.ntut.edu.tw/~wwwwoaa/english/international_student.html

MASTER'S DEGREE REQUIREMENTS¹

1. Thirty two (32) credit hours of graduate level courses must be completed.
2. Required courses (8 credit hours): Master's Thesis (6 credit hours) and Graduate Seminars (2 credit hours).
3. Twenty four (24) credit hours in the EECS-approved technical course list must be earned.
4. Approved by the thesis advisor, a maximum of six (6) credit hours of courses taken from the other NTUT's graduate programs may be credited toward the MS degree.

DOCTORAL DEGREE REQUIREMENTS¹

1. Thirty four (34) credit hours of graduate level courses must be completed.
2. Required courses (16 credit hours): Doctoral Dissertation (12 credit hours) and Graduate Seminars (4 credit hours).
3. Eighteen (18) credit hours in the EECS-approved technical course list must be earned.
4. Approved by the thesis advisor, a maximum of nine (9) credit hours of courses taken from the other NTUT's graduate programs may be credited toward the Ph.D. degree.
5. Successful completion of the Ph.D. qualifying examination.

English-lectured Courses in 2008-2009

Courses may be taken from the graduate-level courses offered by the EECS College and the other NTUT's graduate programs. The EECS course list attached below is the courses lectured in English for the fall semester of 2008 and the spring semester of 2009.

<Fall 2008>

- Fuzzy Control System
- Data Mining
- Mobile Communications
- Computer Communication Networks
- Random Signals and Systems
- Fourier Optics
- Modern Control Theory

<Spring 2009>

- Coding Theory
- New Generation Wireless Transmission Technology
- Special Topics on Wireless Communications
- Microwave Engineering
- Graduate Seminar

¹ The MS and Ph.D. degree requirements are to be approved by the School and the Ministry of Education.

Research Activities

NTUT EECS is distinguished for its research activities. The research grants come from a variety of sources including National Science Council (NSC), other governmental agents, and enterprises. We provide many research and industry-collaboration opportunities to students. Students will be exposed to the state-of-the-art technologies and they will develop teamwork skills through these research activities.

Major Areas in Signals, Systems, and Communications

Multimedia Signal Processing

Topics included: Multimedia coding and transmission, audio and video signal processing, image processing, MPEG technology, and multimedia integration.

Control Systems

Topics included: Intelligent systems, adaptive controls, fuzzy controls, neural networks, robotics, and systems and control theory

Communication and Networking Technologies

Topics included: Wireless and mobile communications, computer networks and protocols, channel and transmission technologies, multimedia communications, and data mining

Contact Us

NTUT International Student Office

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NTUT EECS College

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