

# SHU-TE UNIVERSITY

## Department of Computer and Communication

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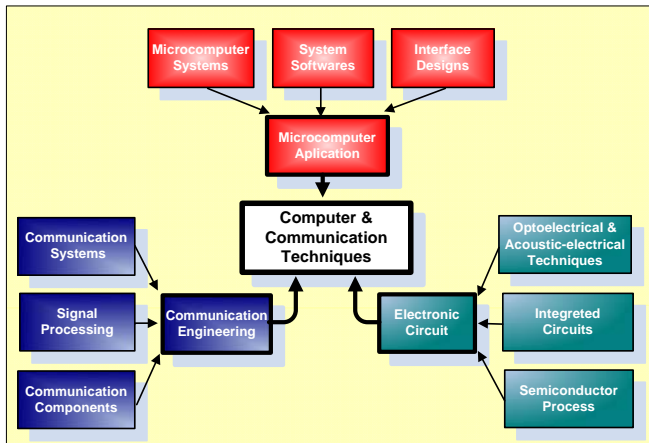
Web site:<http://www.comd.stu.edu.tw>

### INTRODUCTION

In the past decade, advances in computer technology and its related industries have lead to rapid changes among communication systems and the development of computer technology. These advances have created a great demand for persons with specialized skills in relation to computer technology and communication.

In response to the need for training and preparing personnel to meet the challenges, a graduate institute for the Department of Computer and Communication was established at Shu-Te University in 2001. At that time, the graduate institute of Shu-Te University was the second university-based program all throughout Taiwan wherein the use of the terms, communication system and computer technology were part of the name of a tertiary-level department. In 2002, the Department of Computer and Communication was then established with the objective to provide students (both undergraduate and graduate) in-depth theory and practical hands-on capability in prototype hardware development. Undergraduate study at the Department of Computer and Communication develops among the students the necessary skills to enable them to become valuable assets and major contributors to the computer and communication industries.

**Recruiting system:** master's program, full time undergraduate program, undergraduate program for working professionals.



### CURRICULUM

The curriculum is divided into three basic aspects: Microcomputer Application Program, Communication Engineering Program, and Electronic Circuit Program. The elective and basic required courses for students choosing each specific program are:

- The elective courses for Microcomputer Applications Program include:  
computer systems, digital system design, hardware description language, communications software applications.
- The elective courses for Communication Engineerings Program include:  
introduction to mobile communications, communications systems analysis and simulation, microwave engineering, antenna design, RF circuit design.
- The elective courses for Electronic Circuits Program include:  
introduction to VLSI, VLSI layout, semiconductor device physics, introduction to analog integrated circuit design.
- The basic undergraduate required courses are:  
physics, calculus, engineering mathematics, linear algebra, electric circuit, electronics, computer software application, programming design, logistics design, computer architecture, micro-processor principle, electromagnetics, introduction to communication, communication principle, signal and system,

project practice, etc.

### FACILITIES

There are 13 professional Labs at the Department of Computer and Communication, including:

Secure Communication Lab, Optical Communication Lab, Integrated circuit design Lab, Computer Classroom (I), Computer Classroom (II), Communication Lab, Measurement Lab, Antenna Lab, Electronic Circuit Lab, Project Practice Lab, PCB Fabrication Lab, Graduates' Research Room (I), Graduates' Research Room (II).



There are 13 professional Labs at the College of Informatics, including:

Vehicle Electronics and Monitoring System Lab, Professional Accreditation and Operation System Lab, Large Data Computing Lab, Multi-media and Communication Lab, Network Application Technology Lab, Embedded System Lab, Wireless Communication and Information Security Lab, Computer Network and Database Lab, Basic Engineering and Interface Technology Lab, Enterprise Resource Planning and Database Application Lab, CISCO Lab, Wireless E-commerce Lab, and Project Practice Lab.

### CAREERS FOR GRADUATES

Besides studying "basic undergraduate required courses" of electronic and electrical engineering courses, our students can choose to focus on one of the three programs, which are "Microcomputer Applications", "Communication Engineerings" and "Electronic Circuits". Therefore, our graduates are competent at industries of electronic and electrical engineering, as well as computer and communication. Some of their representative careers include computer hardware engineer, software design engineer, firmware design engineer, communication system engineer, RF communication engineer, IC design engineer, electronics engineer, PCB wiring engineer, and IC layout engineer.