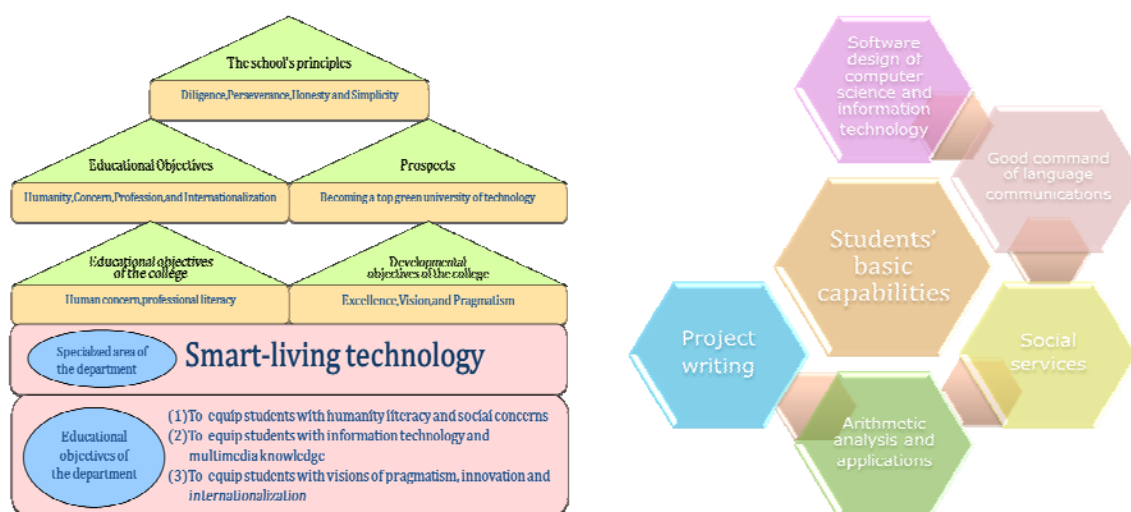


# Introduction to Department of Computer Science and Information Engineering, National Chin-Yi University of Technology

## 1. History

In 2005, the Department of Computer Science and Information Technology was established. At first, we had only one four-year class in the day program. And then we gradually added one more four-year class in the day program in 2006, one four-year night class in 2007, and the master's program in 2008. According to the department development and faculty's expertise, we set up two tracks of study: application of internet and digital content, and application of microchips and multimedia. In 2008, we were accredited by Institute of Engineering Education Taiwan, and this qualification has become one of the considerations taken by most students and parents when choosing this department.

## 2. Objectives and core capabilities



## 3. Current system

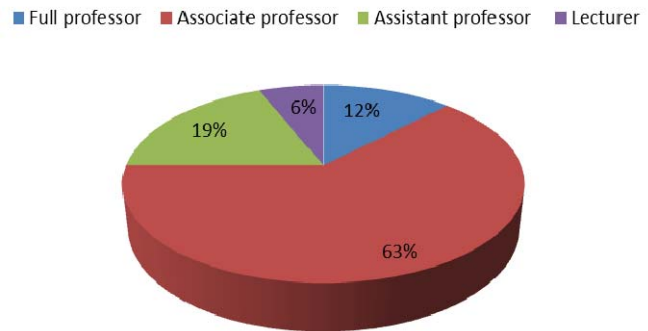
	No. of classes	Graduation credits	General required credits	Professional required credits	Elective credits
Four-year day program	2	130	30	58	42
Four-year night program	1	128	28	52	48
Day master's program	1	30	--	6	24
Night master's program	1	30	--	6	24

## 4. Faculty

There are 15 full-time faculty in this department, including 3 full professors, 9 associate professors, 2 assistant professors and 1 lecturer. All the faculty members are professional in this field, have practical experiences and possess national/ international certificates. In addition to teaching, the faculty in this department has been devoted to research projects, patents, co-operations between industry and academia. The results obtained are fruitful.

National Chin-Yi University of Science and Information Engineering	
Post	Distribution of teachers
Full professor	2 members
Associate professor	10 members
Assistant professor	3 members
Lecturer	1 member
Total	16 members

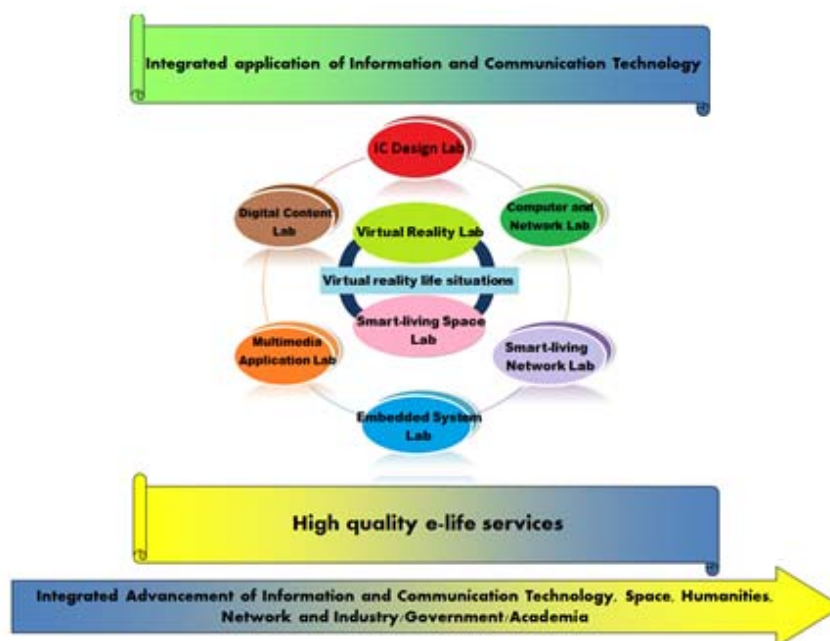
Distribution of teachers



The achievements and developments of full-time faculty				
School year Items	2009	2010	2011	2012
Journal articles	31	17	54	36
Conference papers	94	84	132	92
Projects	59	48	55	31
Patents	13	13	7	17
Honors	37	52	51	49

## 5. Departmental characteristics and laboratories

All the laboratories of our department have been designed on a basis of smart-living technology. We aim at superior-quality E-life services by means of integrated applications of information technology. We also combined technologies of brain wave control, IC electronic design, built-in system and image productions to establish laboratories of smart-living space, virtual reality, smart-living web applications, multimedia applications, and digital content. These laboratories support teaching and practices offered by different professional courses. The equipment in our department is complete and diverse.



## (1) Digital Content Lab

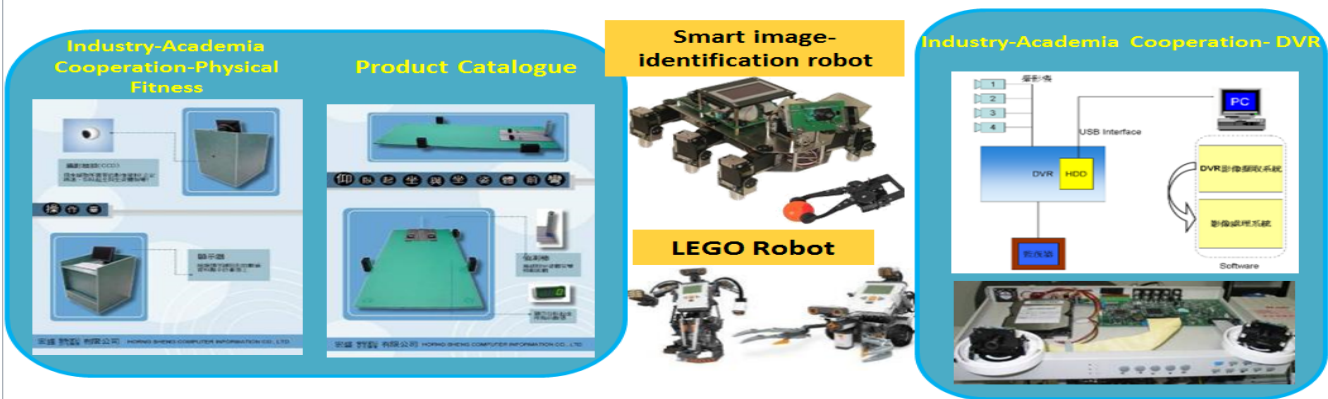
### Main facilities in the lab

1. Fifty sets of personal computers
2. Twenty sets of instructional LEGO Robot
3. Projectors
4. Ten sets of 3Ds Max
5. Twenty-four sets of Robot C



Micro-robot control

## (2) Multimedia Application Lab



## (3) IC Design Lab

### Main facilities in the lab

1. Module Scheme IC Design Platform
2. Logic analyzer card
3. Digital Storage Oscilloscope
4. programmable chip design platform

### FPGA Hardware Platform



### Xilinx Spartan3E Development Board



## (4) System Integrating and Design Lab

### Main facilities in Lab

1. 8-Bit Embedded System
2. 16-Bit Embedded System
3. 32-Bit Embedded System



## (5) Computer and Network Lab

Visits to industrial corporations



**Holding" Network Communication Seminar" with Pitotech Corporation**

**Systematic TRIZ-based innovations**






**Holding" Internet Protocol Simulative Interactions Experimental Teaching Seminar" with Chirkal Corporation**

## (6) Smart-living Network Application Lab


Main facilities in the Lab

1. ZigBee Experimental platform
2. Internet Firewall
3. 3D multimedia system
4. virtual reality platform

3D instructional exhibition system



3D Data Glove



## (7) Smart-living Space Lab and Virtual Reality Lab

**Smart-living Space Lab**

**Space:** 135.9(m<sup>2</sup>)

**Course:** Artificial Intelligence, Soft computing , Virtual Reality

**Main facilities in the Lab**

1. ZigBee Experimental platform
2. Entry Access System
3. 3D multimedia system
4. Physiological Signal testing system

**Virtual Reality Lab**

**Space:** 75.3(m<sup>2</sup>)

**Course:** Artificial Intelligence, Soft computing , Virtual Reality

**Main facilities in the Lab**

1. Stewart Platform Base Manipulator
2. Portable Physiological Signal monitor
3. personal computer
4. Virtual reality Sound Effects Facilities

## 6. Important activities

We pay much attention to students' academic achievements and health. In addition to the school's major events, important activities held by the department include teacher-student meetings, welcome parties for freshmen, farewell parties for graduates, parent-teacher meetings, off-campus visits and student project competitions.