



# 國立東華大學

National Dong Hwa University

## From the **E**ast to the **B**est

### Dept. of Computer Science & Information Engineering

### The Spirit of King

**Spring 2021**



# Located in the Largest and Most Beautiful Campus in Taiwan



# ~ Our Campus ~





# National Dong Hwa University

Excellent Comprehensive University emphasizes both academic research and teaching.

Spirit : **Freedom 、 Democracy 、 Creativity 、 Excellence**

Value : **Continuity 、 Innovation 、 Diversity 。**

# of Academic Colleges	# of Bachelor Programs	# of Master Programs	# of Executive Master Programs	# of Ph.D. Programs
8	39	57	14	16

Bachelor	Master	Ph.D	Total Students	Faculty	Ratio	Staff
7,600+	2,000+	390+	9,900+	620+ (95% PhD)	15.9 : 1.0	360+

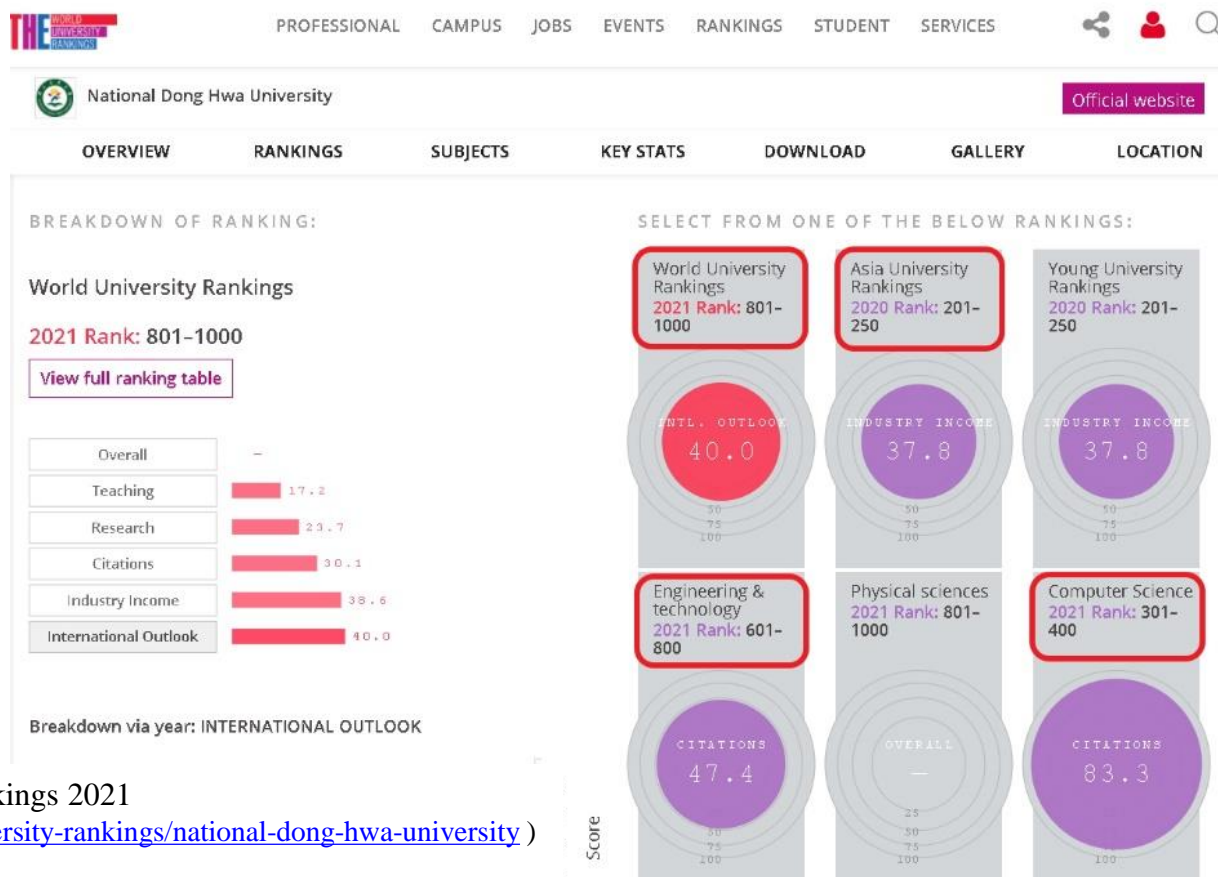
Status As 2020.11.30

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# Times Higher Education World University Ranking 2021

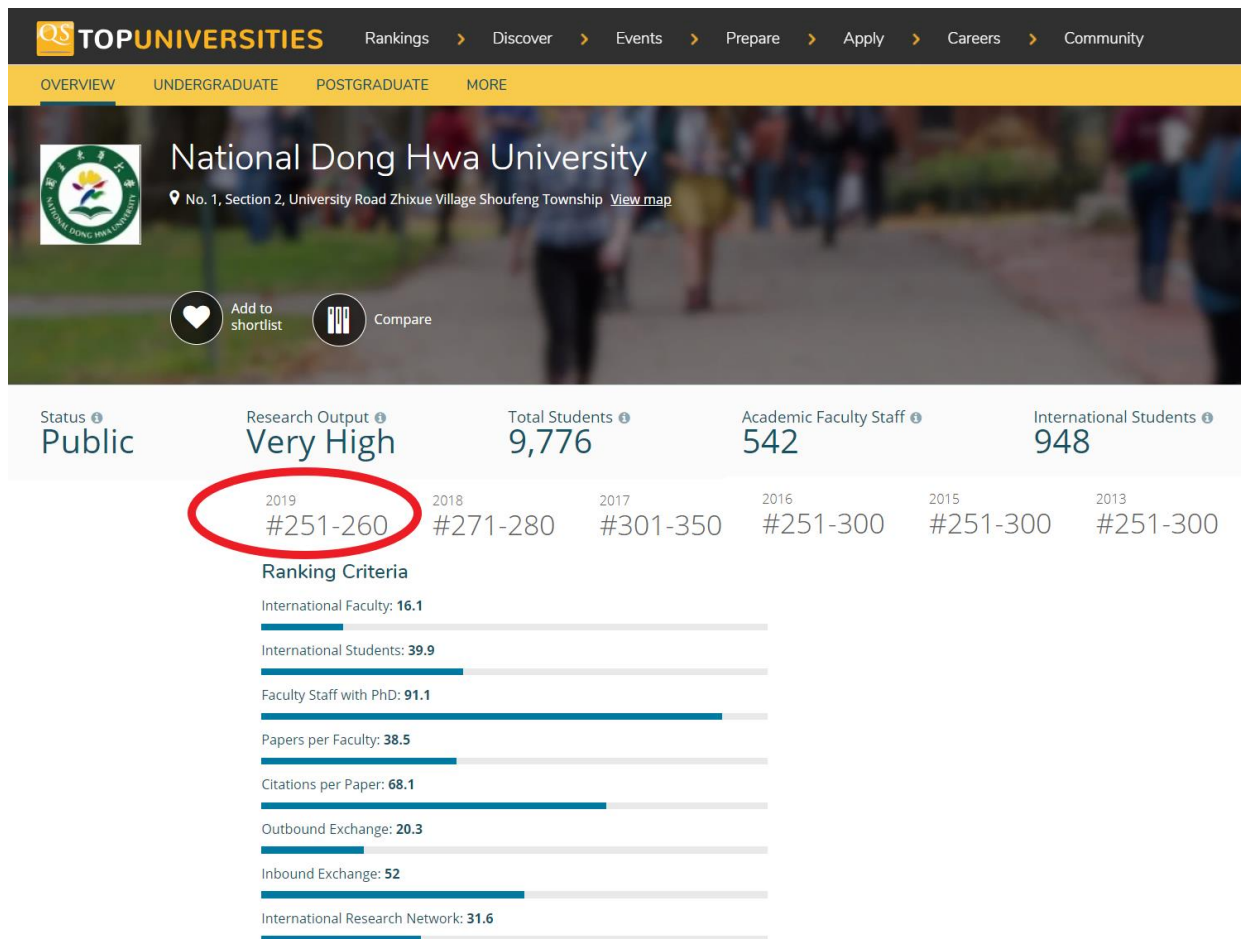
NDHU ranks **10<sup>th</sup>** in Taiwan, **201<sup>th</sup>** in Asia, **801~1000<sup>th</sup>** in the World  
Dept. of CSIE ranks **5<sup>th</sup>** in Taiwan, **301~400<sup>th</sup>** in the World



泰晤士報高等教育特刊 World University Rankings 2021  
(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)

# QS Asian University Rankings

- National Dong Hwa University , **#251~260<sup>th</sup> in Asia**



QS Top Universities – Asian University Rankings (亞洲 **#251~260**)  
(<https://www.topuniversities.com/universities/national-dong-hwa-university>)

# Internationalized Campus

- Cooperate and Exchange agreement with > 350 universities around the world, including Asia, Europe, North America, Africa...
- Bachelor, Master, and Ph.D Programs Taught in English
- Scholarships for International students
- Free fundamental Chinese classes
- Bilingual Staff to assist students





# International Students on campus

	2016-17 School Year	2017-18 School Year	2018-19 School Year	2019-20 School Year	2020-21 School Year
<b>International</b>	<b>271</b>	<b>269</b>	<b>338</b>	<b>389</b>	<b>380</b>
<b>Exchange</b>	348	137	130	179	0 (due covid-19)
<b>Oversea Chinese</b>	397	436	428	430	424
<b>Chinese Language</b>		54	54	89	29 (due covid-19)
<b>Total</b>	<b>1016</b>	<b>896</b>	<b>950</b>	<b>1087</b>	<b>833</b>

**In-status student counts as of 2020.11.05. Students graduate each year.**

**Note: 2020-21 was affected by Covid-19 pandemic disease worldwide.**

# NDHU E-Learning Environment

- **Academic Network Hub Center of Taiwan**
- **Complete E-Learning Environment**  
ex: Long-Distance Learning classroom, Multimedia classroom, e-learning platform, e-systems...etc.
- **Fully covered by high-speed internet access 24-hrs**  
including academic buildings, dorm rooms, & sport fields.



# NDHU Library

**13,000 sq meter, more than 1,500,000 books  
(including Western publications)**



**Reading Room**



**Display Area**



**Microfilm Room**



# Campus Buildings

Engineering Building (Department Offices of CSIE and Electronic Engineering )



Indigenous Studies Building

# Campus Buildings





# Campus Facility

- Dormitory : **6,000 Air-Conditioned rooms guaranteed for all international students**
- Shuttle Bus
- Library & Computer Center
- Bookstore, Cafeteria, Restaurants
- Banks, Postal Office, Coffee Shop
- **Rock Climbing Arena**
- **Cricket Ball, Football, Soccer fields**
- **Swimming Pool (in and outdoors)**
- **Kayak, Sailboat**
- Basketball, Volleyball, Badminton, Tennis Court
- Gym, Weight Training, Running Track
- Bicycle Lanes
- Guest Hotel





# Sport Facility



# ~ Our Lives on Campus ~





# Modern Dormitory & Living Space

- All new 6000 **Air-Conditioned** private rooms with bathroom inside.
- Bright large living space.
- **Dormitories are guaranteed for all international students.**
- Prayer rooms, Kitchens, Community rooms, Study centers.
- 24-hr Managers and Campus Policemen on duty.
- Campus Shuttle Bus run between campus and downtown every hour.
- Comfortable and Convenient living environment.





# Modern Dormitory (inside)



# Modern Dormitory (facility)





# Facility – Prayer Room (Mushollah)





# Various Eatery on campus



## Lakeside Brunch

RICE (with Salad or French fries)		SPAGHETTI (with Salad or French fries)	
Rosemary Grilled Chicken 烤雞排	NT\$120	Smoked Chicken 奶油燻雞	NT\$100
Tonkatsu (Fried pork) 日式豬排	NT\$120	and Cream Sauce	
Beef Stew in Red Wine 紅酒牛肉	NT\$130	Smoked Chicken 番茄燻雞	NT\$100
Roasted Pork with kimchi 泡菜豬	NT\$120	and Tomato Sauce	
Taiwanese Salted Bacon 鹹豬肉	NT\$120	Bacon and Pesto Sauce 青醬培根	NT\$100
Chef's Stewed Pork 紅燒肉	NT\$120	Smoked Salmon 奶油燻鮭魚	NT\$100
		and Cream Sauce	NT\$100
		Mushroom 蘑菇野菇	NT\$100
		and Tomato Sauce	
• +NT\$40 To Upgrade Additional Dessert and NT\$25 Drinks (From MENU)			
SNACKS		BAGEL	
Toast with Jam 薄片	NT\$15	Vegetables and Fruits (Veggie)蔬菜貝果	NT\$50
Thick Toast with Jam 厚片	NT\$25	Roast Beef 牛肉貝果	NT\$65
French Fries 薯條	NT\$40	Smoked Chicken 燻雞貝果	NT\$65
Fried Mozzarella 起司條	NT\$50	Ham 火腿貝果	NT\$65
Krispy Onion Rings 洋葱圈	NT\$50		
Smoked Chicken Burrito 雞肉捲	NT\$90		
Beef Burrito 牛肉捲	NT\$90		
Fried Three-For-All 綜合炸物	NT\$120		
SANDWICH		FOCACCIA	
Mashed Potato (Veggie)薯泥	NT\$50	Vegetables and Fruits (Veggie)綜合蔬菜	NT\$50
Beef 牛肉	NT\$65	Roast Beef 牛肉	NT\$65
Egg and Pork 肉蛋	NT\$65	Smoked Chicken 燻雞	NT\$65
Fried Chicken 炸雞排	NT\$65	Ham 火腿佛卡夏	NT\$65
Tuna and Corn 鮪魚	NT\$65	Bacon 培根佛卡夏	NT\$65
WINTER SPECIAL			
Korean Pomelo Tea 柚子茶	NT\$45		
Ginger Tea with Brown Sugar 黑糖薑茶	NT\$45		
Fruit Tea 水果茶	NT\$45		
Longan Tea with Jujube 桂蜜紅棗茶	NT\$45		





# Transportation on campus



Shuttle buses run between NDHU campus to Downtown Hualien City



Street shops nearby



Train station next to NDHU Campus



# Multivariate Courses



- Rock Climbing, Diving, Whale Watching
- Marine Center, TV studio、3D Print、Maker Space





# Multivariate Courses



- Independent Research, In-Door Sports
- Rock Climbing, Wind Surfing, Kayaking on campus





# Student's Entertainment



Night Market



Concert Festival



Movie Theater / KTV



Ocean Beach



# Student's Entertainment



River Trackin, Natural Wonder





# Student's Entertainment

Hiking 、 Ocean Adventure 、 Natural Wonder



# ~ Our Study in Dept of CSIE ~

## Computer Science & Information Engineering

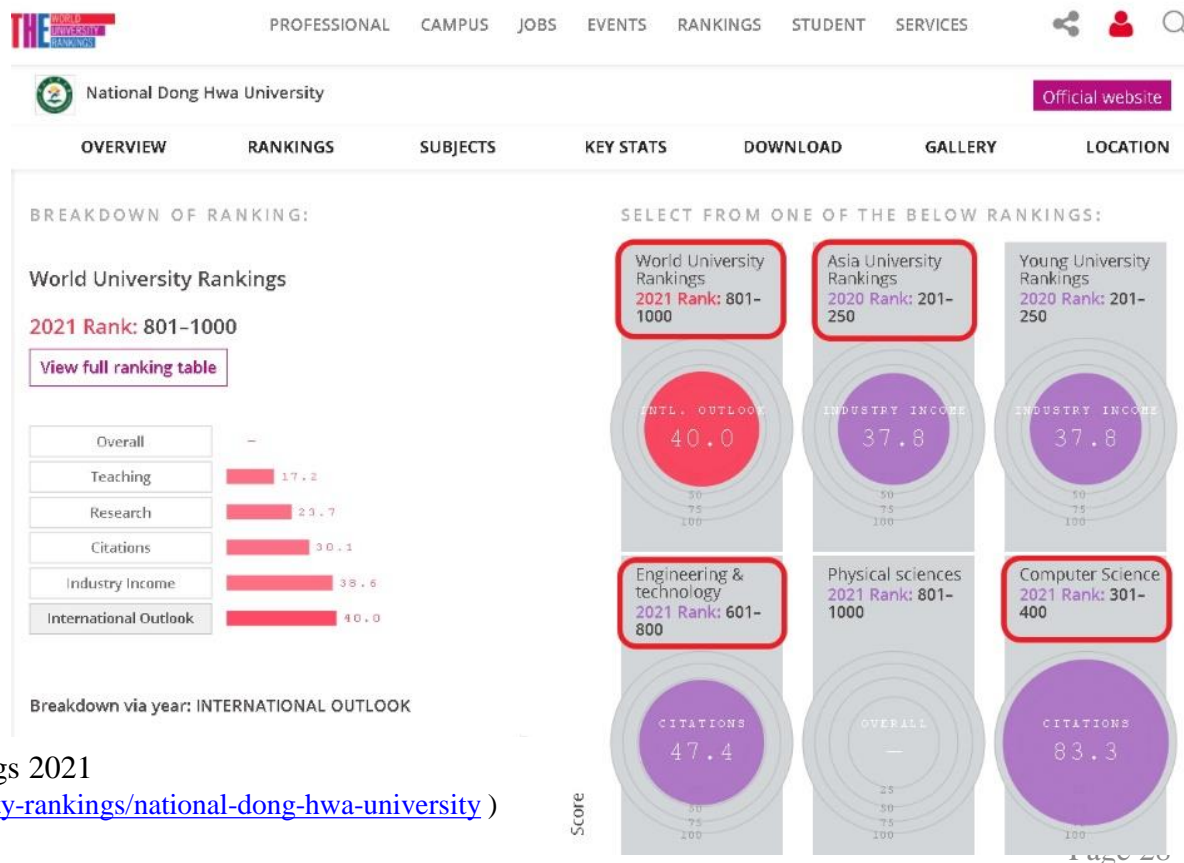




# Times Higher Education World University Ranking 2021

NDHU ranks **10<sup>th</sup>** in Taiwan, **201<sup>th</sup>** in Asia, **801~1000<sup>th</sup>** in the World

Dept. of CSIE ranks **5<sup>th</sup>** in Taiwan, **301~400<sup>th</sup>** in the World



泰晤士報高等教育特刊 World University Rankings 2021

(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)



# Dept of CSIE ranks 301~400<sup>th</sup> (Taiwan 5<sup>th</sup>) in Computer Science subject in 2021 THE World Ranking of Academic Performance.



## World University Rankings 2021 by subject: computer science

Rank	Name Country/Region	Overall	Citations	Industry Income	International Outlook	Research	Teaching
62	National Taiwan University (NTU) Taiwan	61.4	41.1	60.1	31.3	74.0	75.3
101-125	National Chiao Tung University Taiwan	49.9-53.2	38.6	51.4	25.0	61.0	55.1
151-175	National Tsing Hua University Taiwan	45.5-47.5	38.3	56.2	27.8	55.7	49.2
201-250	National Taiwan University of Science and Technology (Taiwan Tech) Taiwan	40.1-43.2	62.3	48.4	29.8	35.2	33.9
301-400	National Dong Hwa University Taiwan	33.9-37.8	83.3	44.6	39.0	16.5	14.7
301-400	National Cheng Kung University (NCKU) Taiwan	33.9-37.8	21.5	52.8	19.0	42.7	46.9
301-400	National Sun Yat-Sen University Taiwan	33.9-37.8	40.8	46.4	24.1	31.9	31.6
301-400	National Taiwan Normal University Taiwan	33.9-37.8	48.4	48.7	26.6	28.9	27.7
501-600	Asia University, Taiwan Taiwan	25.7-29.7	27.1	73.9	30.3	25.9	23.8

## 2021 泰晤士世界大學分科排名【電腦科學】-- 臺灣

學校名稱	2021 世界	2021 臺灣	2020 世界	2020 臺灣	升降	Overall	Citations 27.5%	Industry Income 5.00%	International Outlook 7.50%	Research 30%	Teaching 30%	Score
國立臺灣大學	62	1	67	1	0	61.4	41.1	60.1	31.3	74	75.3	61.4
國立交通大學	101-125	2	176-200	4	2	49.9-53.2	38.6	51.4	25	61	55.1	49.9
國立清華大學	151-175	3	126-150	2	-1	45.5-47.5	38.3	56.2	27.8	55.7	49.2	46.9
國立臺灣科技大學	201-250	4	151-175	3	-1	40.1-43.2	62.3	48.4	29.8	35.2	33.9	42.5
國立東華大學	301-400	5	401-500	6	1	33.9-37.8	83.3	44.6	39	16.5	14.7	37.4
國立成功大學	301-400	6	301-400	5	-1	33.9-37.8	21.5	52.8	19	42.7	46.9	36.9
國立臺灣師範大學	301-400	7	401-500	7	0	33.9-37.8	48.4	48.7	26.6	28.9	27.7	34.7
國立中山大學	301-400	8	401-500	8	0	33.9-37.8	40.8	46.4	24.1	31.9	31.6	34.4
國立中央大學	501-600	9	501-600	9	0	25.7-29.7	27.4	55	22.3	24.8	30	28.4
亞洲大學	501-600	10	501-600	10	0	25.7-29.7	27.1	73.9	30.3	25.9	23.8	28.3
逢甲大學	501-600	11	601+	12	1	25.7-29.7	34.6	45.5	30.9	19.1	20.7	26
國立中正大學	601-800	12	501-600	11	-1	15.1-25.6	33.8	44.9	16.1	18.8	18.2	23.8
國立政治大學	601-800	13	601+	13	0	15.1-25.6	28.5	44.8	19.1	20.3	19.7	23.5
國立中興大學	601-800	14	601+	14	0	15.1-25.6	29.8	45.4	20.4	15.8	22.4	23.5
中原大學	601-800	15	601+	15	0	15.1-25.6	24.4	45.2	24.7	20.8	12.4	20.8
淡江大學	601-800	16	601+	16	0	15.1-25.6	12.1	44.5	20.6	22	21.9	20.3
元智大學	601-800	17	601+	17	0	15.1-25.6	22	48	24.8	9.9	12.8	17.1
長庚大學	601-800	18	601+	18	0	15.1-25.6	25.3	47.3	16.9	14.7	12.9	18.9
朝陽科技大學	601-800	19	601+	19	0	15.1-25.6	13.9	45	18.8	16.4	17.2	17.6
國立高雄大學	601-800	20	601+	20	0	15.1-25.6	15.6	45.2	25.5	11.3	11.7	15.4

# Low Cost for Higher Education

2021~2022 Estimated Expenses to Study at NDHU (Bachelor)				(Master & Ph.D. )		
	NTD/semester	NTD/year	USD/year	NTD/semester	NTD/year	USD/year
Personal Expenses				Personal Expenses		
Dormitory Fee	10,700 NTD	21,400 NTD	713 USD	10,700 NTD	21,400 NTD	713 USD
Dormitory Deposit	1,000 NTD	2,000 NTD	67 USD	1,000 NTD	2,000 NTD	67 USD
Book/Supplies	10,000 NTD	20,000 NTD	670 USD	10,000 NTD	20,000 NTD	670 USD
Living Costs Food, transportation etc.	36,000 NTD	72,000 NTD	2,400 USD	36,000 NTD	72,000 NTD	2,400 USD
Student insurance fee, ...etc	5,000 NTD	10,000 NTD	333 USD	5,000 NTD	10,000 NTD	333 USD
Total Personal Expenses	62,700 NTD	125,400 NTD	4,180 USD	62,700 NTD	125,400 NTD	4,180 USD
Tuition fees and Miscellaneous fees				Tuition Fees and Credit Fees		
College of Science and Engineering	55,580 NTD	111,160 NTD	3,750 USD	25,800 NTD	51,600 NTD	1,720 USD
				3,060/credit	3,060/credit	102 USD /credit
Total Expenses				Total Expenses		
Total Estimated Expenses	118,280	236,560	7,930	88,500	177,000	5,900
	NTD	NTD	USD	+(3,060*credit) NTD	+(3,060*credit) NTD	+(102*credits) USD

NTD = New Taiwanese Dollar, USD = U.S. Dollar

First-year students should anticipate additional expenses to settle down.  
(e.g. computer, bed sheet, pillowcase, etc.)

The above amounts are estimated and will be affected by choice of living style and personal needs.



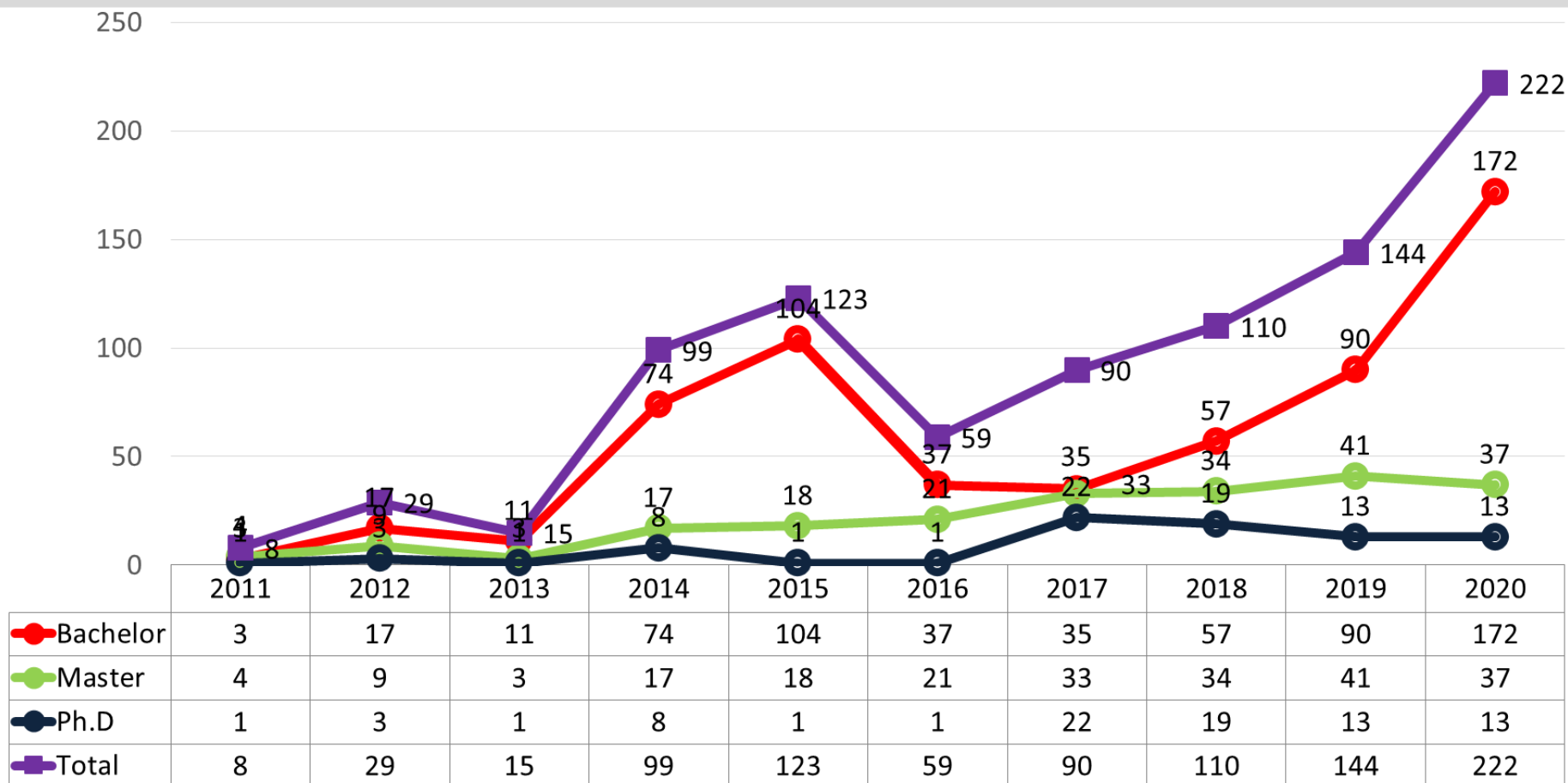


# Financial Aid / Scholarship

# National Dong Hwa University #		# Other Organizations #	
Scholarship	Description	Scholarship	Description
<b>NDHU International Student Scholarship</b>	Tuition 50% ~ 100% Waiver Top Bachelor Students Stipend: NT\$20,000 / semester Top Master's and Doctoral Students Stipend: NT\$30,000 / semester	<b>Vest 500 Project</b>	Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Vietnamese only)
<b>NDHU Southward Scholarship</b>	Doctoral Students Only Tuition 100% Waiver -- not include accommodation and other expenses (not including agency, insurance, and Internet fees) Stipend: NT\$6,000/ month Research Incentive: NT\$8,000/ month	<b>Mekong 1000 Project</b>	Tuition Waiver Stipend Round-trip Economy-class Ticket (Vietnamese only)
# Government Agencies #		<b>Danang Project</b>  <b>Aceh Project</b>  <b>BUDI Project</b>  <b>Thai Elite 600 Project</b>  <b>Southern Sunshine Scholarship (SSS) Project</b>	Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Vietnamese only)
Scholarship	Description		Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Indonesian only)
<b>Taiwan Scholarship</b>	International Cooperation and Development Fund (TaiwanICDF) 100% Tuition and Fee Waiver 100% Dorm Room and Insurance paid Bachelor Stipend: NT\$12,000 / month		Tuition Waiver Stipend Insurance Fee Book Fee (Indonesian only)
	Ministry of Foreign Affairs (MOFA) Tuition 50% Waiver Stipend: NT\$30,000 / month		Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Thai only)
	Ministry of Education (MOE) Tuition 100% Waiver Bachelor Stipend: NT\$15,000 / month Master's and Doctoral Stipend: NT\$20,000 / month		Tuition Waiver Stipend

NDHU Financial Aid Application: <https://oia.ndhu.edu.tw/intl-student/intl-scholarship/intl-scholarship-information>

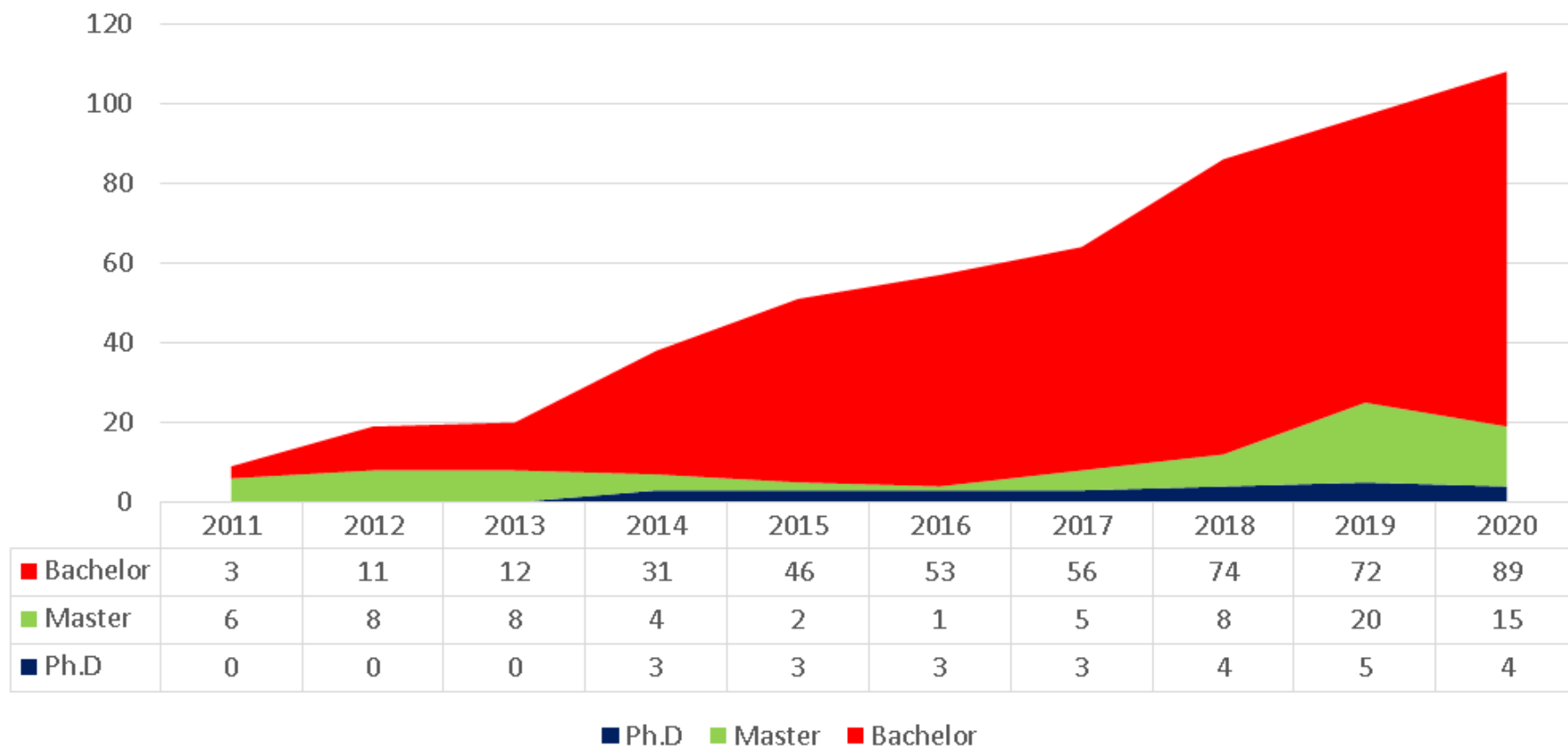
# Internationalized Department



**CSIE Int'l Admission Applications of each academic year**



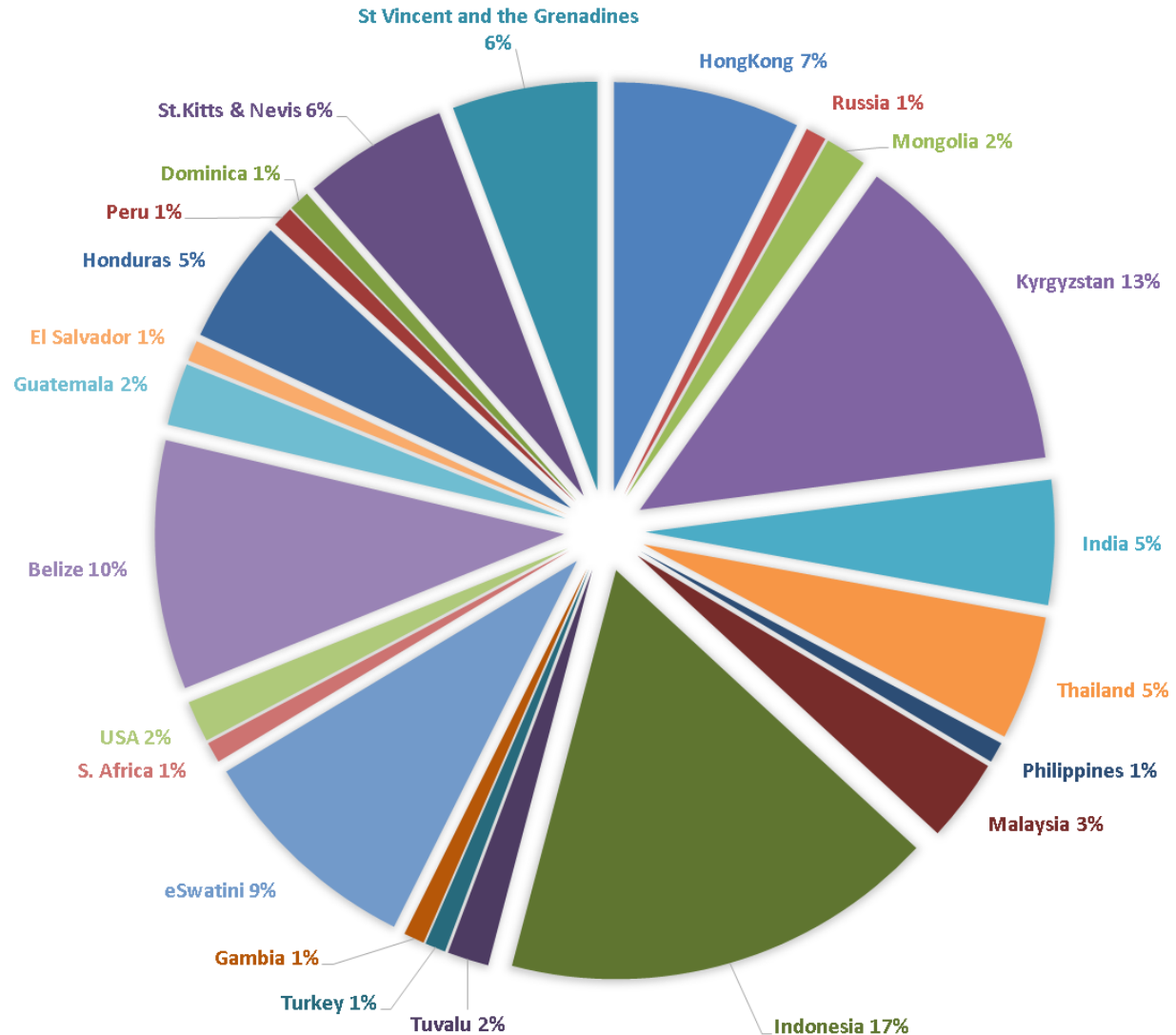
# Internationalized Department



**CSIE International In-Status Students of each academic year**

# Internationalized Department

✓ CSIE's Students come from Around the World!







# Chinese Class for Int'l Students





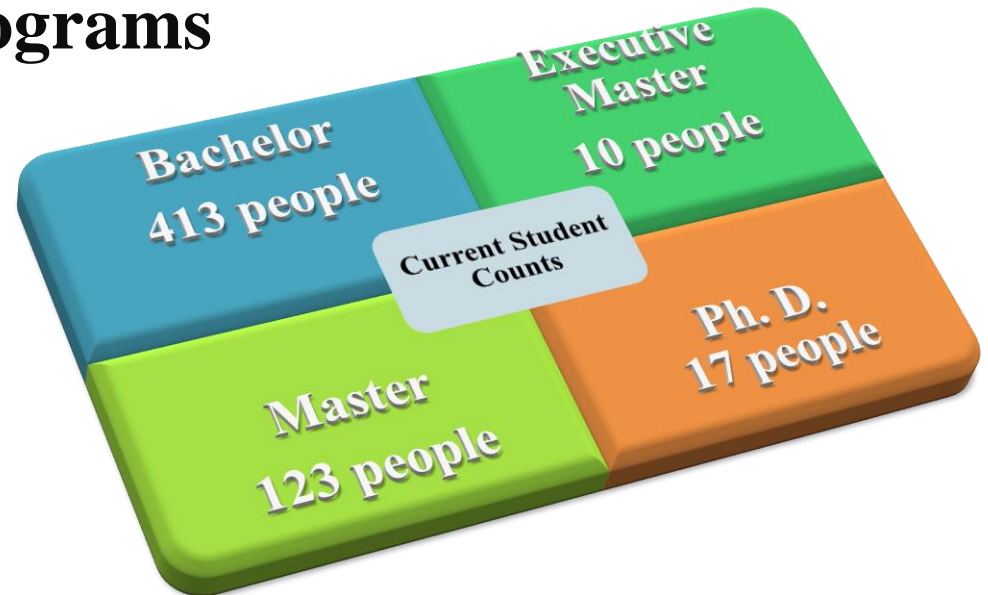
# Chinese Class for Int'l Students



# Department of Computer Science & Information Engineering

- **Most comprehensive programs**

- Bachelor
- International Bachelor
- Master
- International Master
- Executive Master
- Ph.D.



- ✓ **Dept of CSIE 300-400<sup>th</sup>** (Taiwan 5<sup>th</sup>) in **Computer Science** subject in 2021 World Ranking of Academic Performance.
- ✓ Outstanding and Remarkable research opportunities and performances.
- ✓ Supportive faculty and excellent learning environment definitely advance your career.



# Faculty Team

## 資訊工程學系

Department of Computer Science  
and Information Engineering (CSIE)

### 軟體系統與 應用研究群

Software Sys & App

### 多媒體研究群

Multimedia Tech & App

### 網路與系統 研究群

Network and System

**吳秀陽 教授** Professor Hsiao-Yang Wu

**學歷背景**  
美國德州大學奧斯汀校區計算機科學博士  
Dept. of Computer Science, University of Texas at Austin, U.S.A.

**研究興趣**  
網路系統與管理、行動裝置與網路、分散式系統、嵌入式系統、RFID網路環境、網路管理  
Distributed Systems, Network and Cloud Computing, Embedded Systems, Wireless Sensor Networks, Network Management

聯絡資訊: 03-853-4020 / 4031  
E-mail: rshu@csie.ndhu.edu.tw  
Lab/Phone: 網路系統與管理  
研究群軟體系統與應用研究群 (2009 / 2008 / 4031)

**周世杰 教授** Professor Shih-Chieh Chen

**學歷背景**  
國立交通大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Tsing Hua University, Taiwan

**研究興趣**  
網路工程、系統分析與設計、物件導向軟體開發、系統、軟體測試、軟體維護與工程  
Network Engineering, System Analysis and Design, Software Development, System Maintenance

聯絡資訊: 03-853-4034  
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研究群軟體系統與應用研究群 (2003 / 2004 / 4037)

**顏士淨 教授** Professor Shih-Jing Yan

**學歷背景**  
國立台灣大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Taiwan University, Taiwan

**研究興趣**  
人工智慧、電腦對策、機器學習  
Artificial Intelligence, Computer Games, Machine Learning

聯絡資訊: 03-853-4031  
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研究群軟體系統與應用研究群 (2003 / 2004 / 4031)

**李官陵 教授** Professor Kuan-Ling Lee

**學歷背景**  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan

**研究興趣**  
資料庫、行動計算、資料探勘  
Mobile Computing, Database, Data Mining

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研究群軟體系統與應用研究群 (2007 / 2008 / 4044)

**彭勝龍 教授** Professor Sheng-Lung Peng

**學歷背景**  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan

**研究興趣**  
演算法學、圖形理論、生物資訊學  
Computer Algorithms, Graph Theory, Bioinformatics

聯絡資訊: 03-853-4038  
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研究群軟體系統與應用研究群 (2004 / 2005 / 4040)

**高偉英 教授** Professor Wei-Ying Kao

**學歷背景**  
交通大學資訊管理研究所博士  
Dept. of Information Management, National Chiao Tung University, Taiwan

**研究興趣**  
智慧型決策、柔性運籌、最佳化方法與應用  
Optimization Methods and Applications, Soft Computing, Intelligent Decisions

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**張道顯 教授** Professor Dao-Xian Zhang

**學歷背景**  
台灣師範大學資訊教育研究所博士  
Institute of Information and Computer Education, National Taiwan Normal University, Taiwan

**研究興趣**  
資訊安全、網路服務、工作流、軟體工程  
Information Security, Internet Services, Workflow, Software Engineering

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**林信鋒 教授** Professor Sheng-Feng Lin

**學歷背景**  
美國密西沙加大學電腦博士  
Dept. of Electrical Engineering, Mississippi State University, U.S.A.

**研究興趣**  
信號處理、影像處理、影像/視訊壓縮、資訊安全  
Signal/Image Processing, Image/Video Compression, Information Security

聯絡資訊: 03-853-4019 / 3901  
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Lab/Phone: 網路系統與管理  
研究群軟體系統與應用研究群 (2007 / 2008 / 4043)

**楊慶隆 教授** Professor Chung-Yang Yang

**學歷背景**  
國立成功大學電機工程博士  
Dept. of Electrical Engineering, National Cheng Kung University, Taiwan

**研究興趣**  
網路與網路安全、密碼學、密碼理論  
Cryptography, Information and Network Security, Coding Theory

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研究群軟體系統與應用研究群 (2004 / 2005 / 4043)

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國立交通大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan

**研究興趣**  
網路網路、影像處理、圖形學、智慧型人機介面  
Network, Image Processing, Pattern Recognition, Intelligent Human-Machine Interface

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Dept. of Computer Science and Engineering, Pennsylvania State University, U.S.A.

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電腦視覺、影像處理、虛擬實境  
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國立清華大學電機工程博士  
Dept. of Electrical Engineering, National Tsing Hua University, Taiwan

**研究興趣**  
影像處理、電腦視覺、電腦繪圖  
Image Processing, Computer Vision, Computer Graphics

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研究群軟體系統與應用研究群 (2007 / 2008 / 4047)

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國立中央大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Central University, Taiwan

**研究興趣**  
數位學習、學習科技、程式設計  
Digital Learning, Learning Technology, Mobile Computing

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研究群軟體系統與應用研究群 (2004 / 2005 / 4051)

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Dept. of Electrical Engineering, National Sun Yat-Sen University, Taiwan

**研究興趣**  
機器學習、智慧網路、嵌入式系統、數位學習  
Machine Learning, Wireless Network, Embedded Systems, Electronics Learning

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Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan

**研究興趣**  
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Fault-Tolerant Computing, Peer-to-Peer Computing, Interconnection Networks, Embedded Systems

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研究群軟體系統與應用研究群 (2004 / 2005 / 4047)

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美國加州大學洛杉磯分校計算機科學博士  
Dept. of Computer Science, University of California, Los Angeles, U.S.A.

**研究興趣**  
計算機結構、平行處理、超大型、硬體電路設計、嵌入式系統  
Computer Architecture, Parallel Processing, VLSI Design, Embedded Systems

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**學歷背景**  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan

**研究興趣**  
行動計算、無線網路、資訊服務  
Mobile Computing, Wireless Network, Information Services

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研究群軟體系統與應用研究群 (2004 / 2005 / 4040)

**賴賢運 教授** Professor Hsiao-Yen Lai

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國立交通大學資訊科學博士  
Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan

**研究興趣**  
連結網路、智慧網路、圖形學、容錯計算  
Interconnection Networks, Error Diagnosis, Graph Theory, Fault Tolerant Computing

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研究群軟體系統與應用研究群 (2003 / 2004 / 4040)

**陳晏秀 教授** Professor Hsin-Yen Chen

**學歷背景**  
國立中正大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Chung Cheng University, Taiwan

**研究興趣**  
電腦網路、無線網路、雲端網路  
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研究群軟體系統與應用研究群 (2007 / 2008 / 4040)

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**學歷背景**  
美國紐約大學計算機科學博士  
Dept. of Computer Science, New York University, U.S.A.

**研究興趣**  
演算法、程式分析、雲端系統、最佳化  
Cloud Computing, Web Technology, Mobile Software, Compiler

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研究群軟體系統與應用研究群 (2003 / 2004 / 4040)

# Our Professors with IET Fellow honor



Prof. David Shin-Feng Lin  
Signal/Image Processing, Image/Video  
Compression

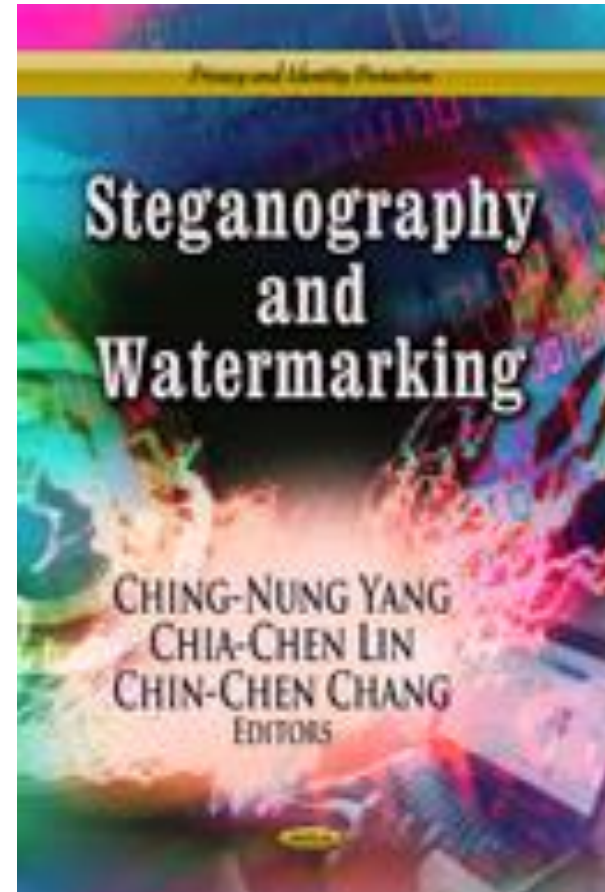
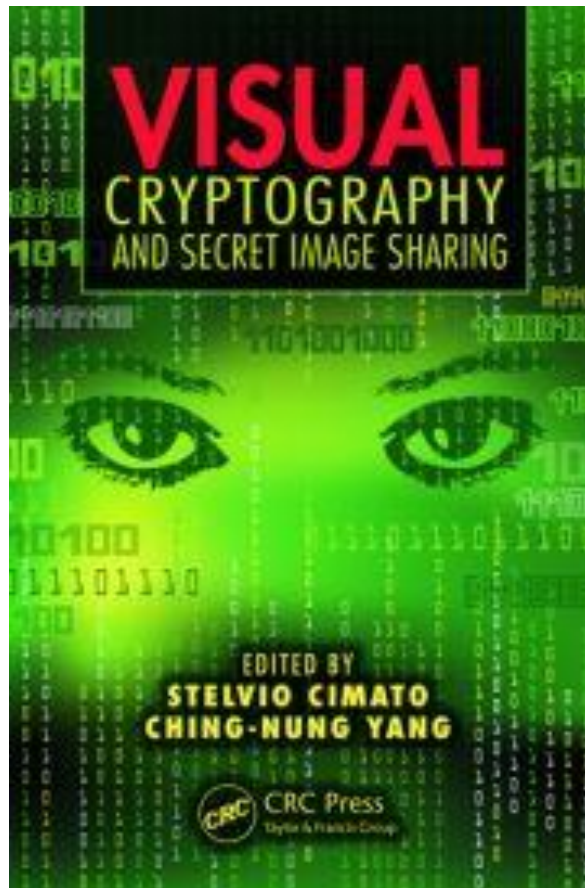


Prof. Ching-Nung Yang  
Information and Network Security  
Cryptography Coding Theory

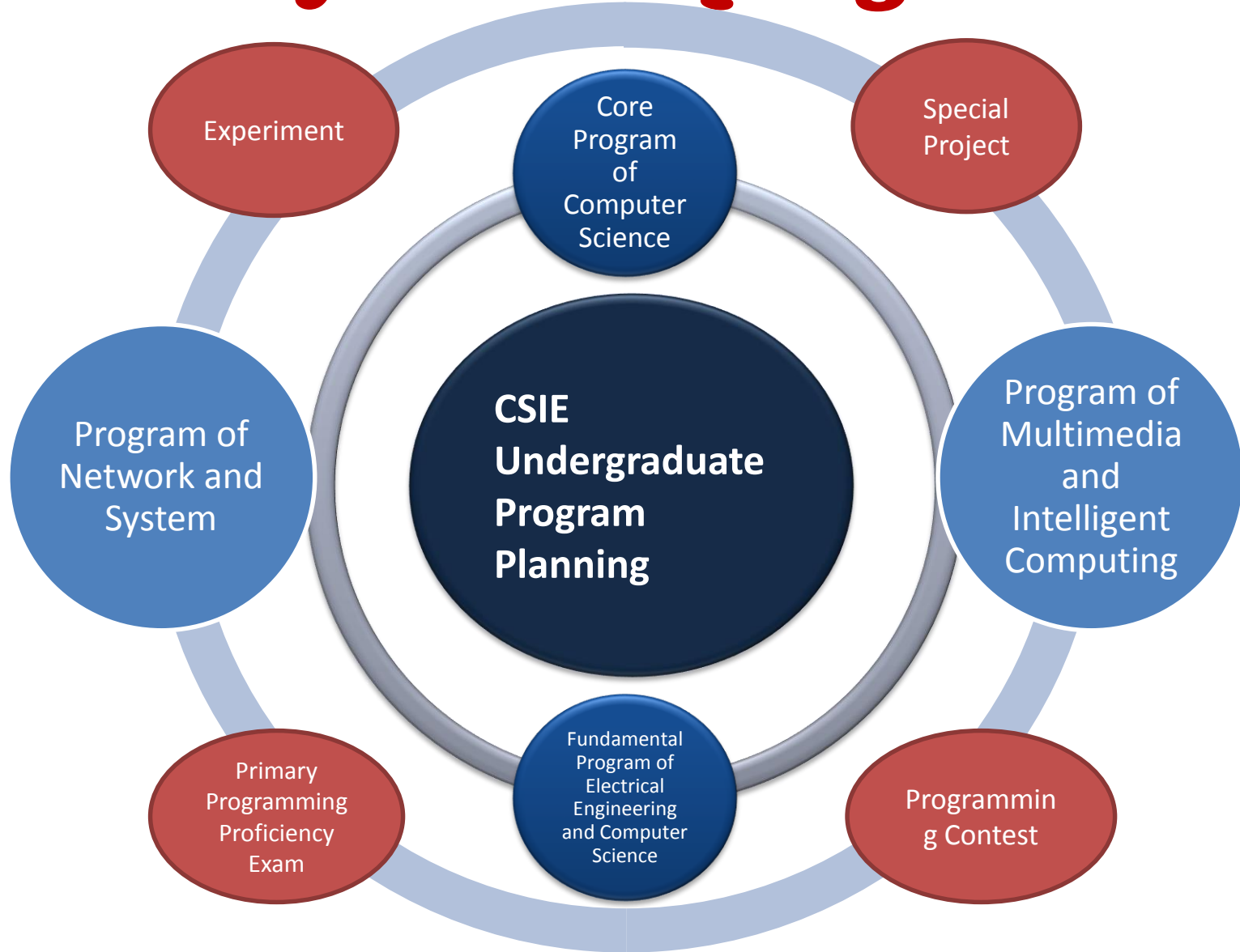
Page 40



# English Textbook written by our professors



# Flexible yet Solid program design

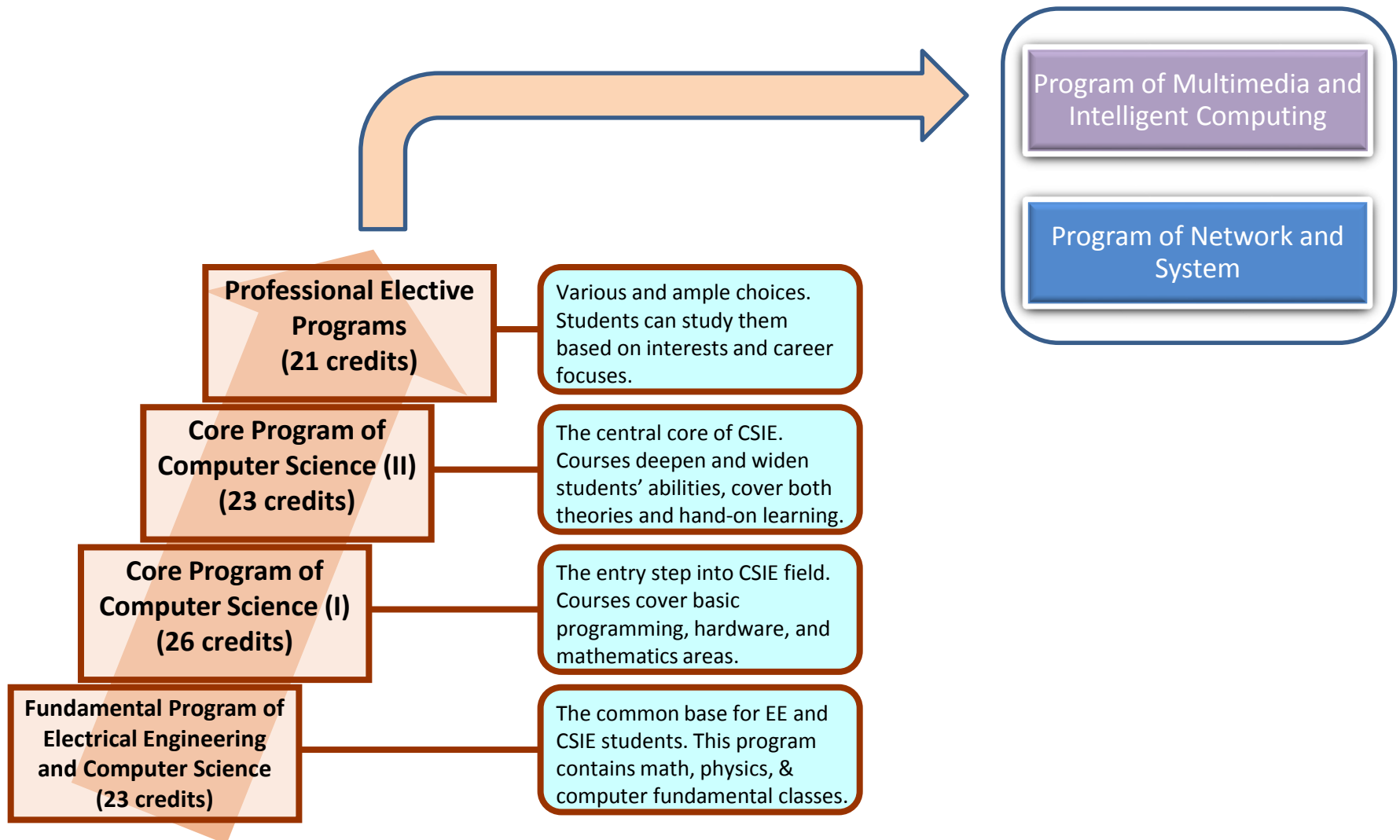




# Modularized Program

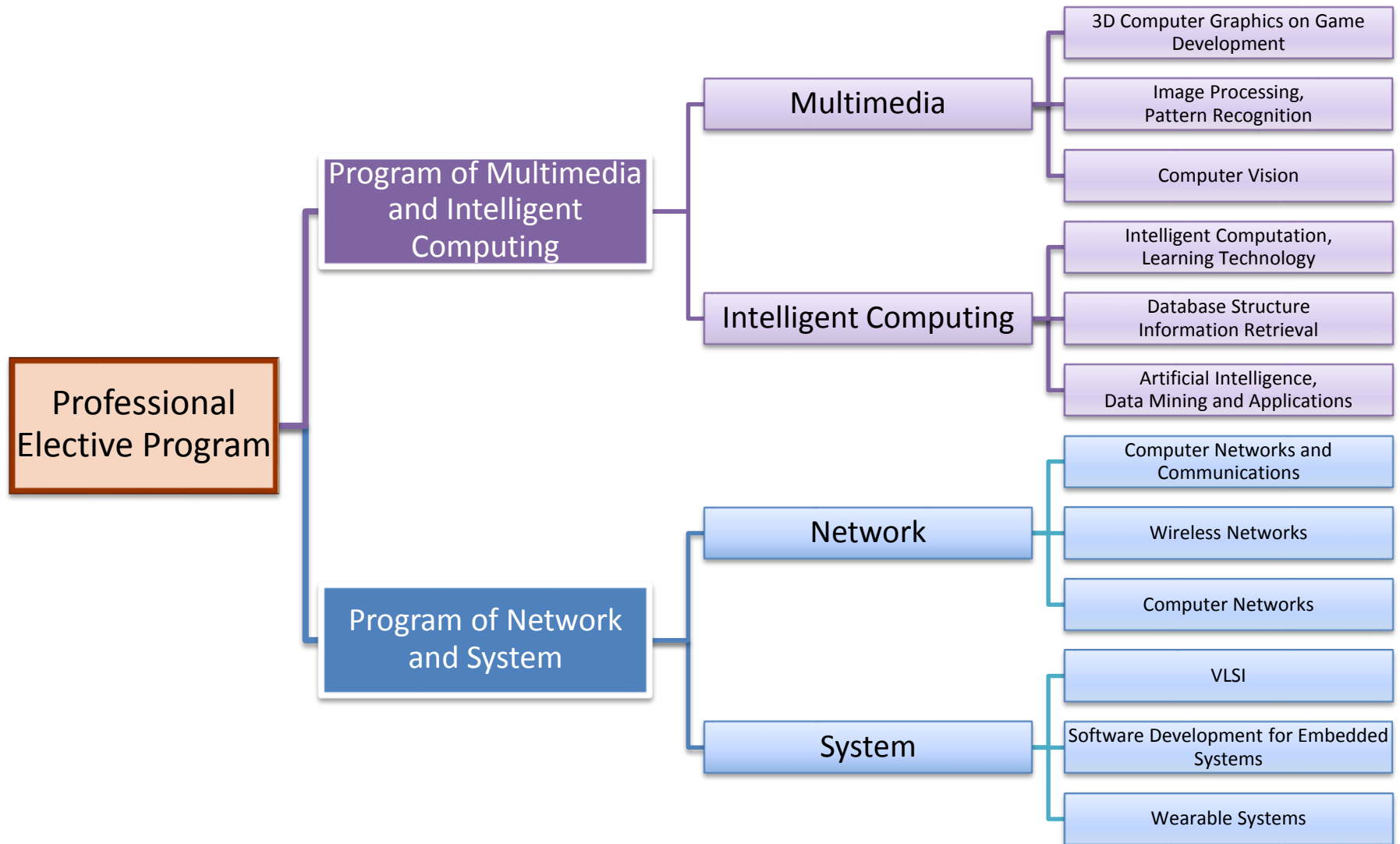
College of Science and Engineering	Professional Elective Programs	Core Program	Fundamental Program	Liberal Arts
Interdisciplinary Course Program	Program of Nanotechnology 21			
DEPARTMENT OF Applied Mathematics	Program of Stat. & Data Analysis 21 Program of Adv. Math 21 Program of Information Science & Math Computation 21 Program of Mathematical Science 27	Core Program of Mathematics (I) 26 Core Program of Mathematics (II) 21 Core Program of Stat. Science (I) 26 Core Program of Stat. Science (II) 21	Fundamental Program of Applied Math. 23	<div>           University Core Curriculum 43 credits            (Languages 9 credits、Physical Education 4 credits、Service Learning 2 credits、Elective Core Courses 28 credits)         </div>
DEPARTMENT OF Electrical Engineering	Program of Computer and Communications 21 Program of Microelectronics and Control 21	Core Program I of Electrical Engin. 25 Core Program II of Electrical Engin. 25	Fundamental Program of Electrical Engineering 23	
DEPARTMENT OF Computer Science and Information Engineering	Program of Multimedia Technologies and Applications 21 Program of Network and System 21	Core Program of Computer Sci. (I) 26 Core Program of Computer Sci. (II) 23	Fundamental Program of Electrical Engineering and Computer Science 23	
DEPARTMENT OF Physics	Program of Nano Science and Optoelectronics 21 Program of Theoretical and Computational Physics 21 Program of Biophysics and Material Physics 21	Core Program of Physics (I) 22 Core Program of Physics (II) 23	Fundamental Program of Science 21~22	

# CSIE Undergraduate Programs

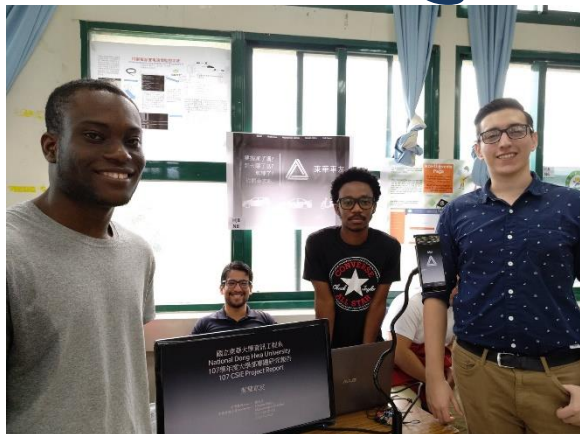




# Professional Elective Program



# Independent Project Expo



(上/下圖) 資工系大三專題展實況 學生將所設計的資工產品實體展現並接受客觀評分

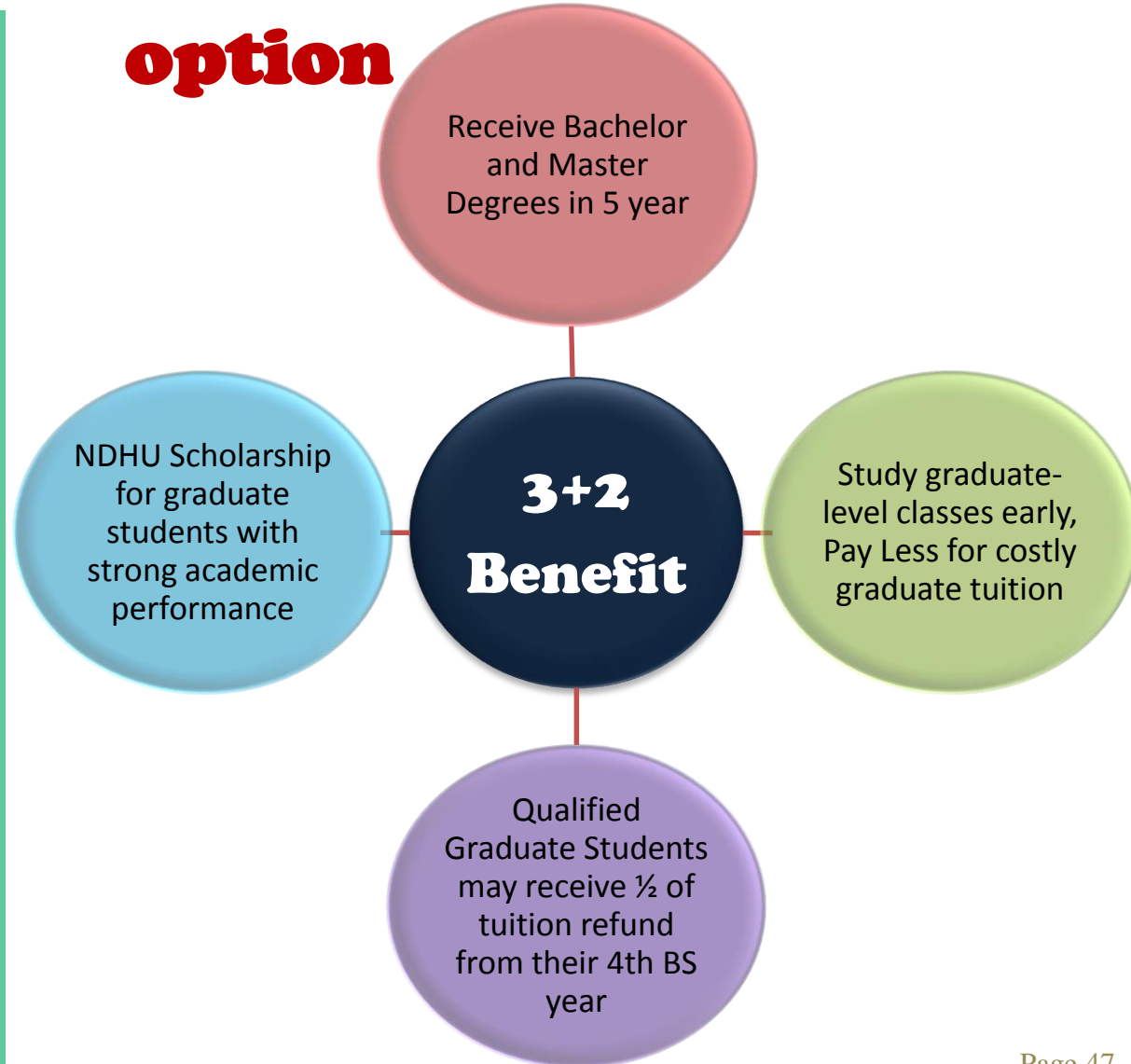




# NDHU CSIE—5 Year for Bachelor & Master

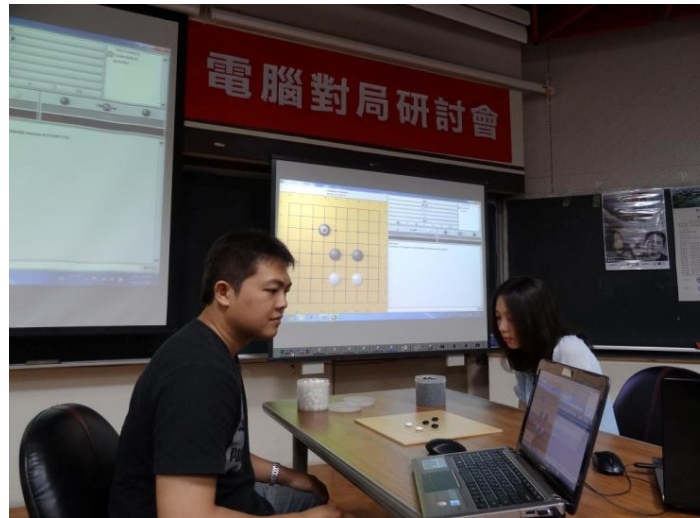
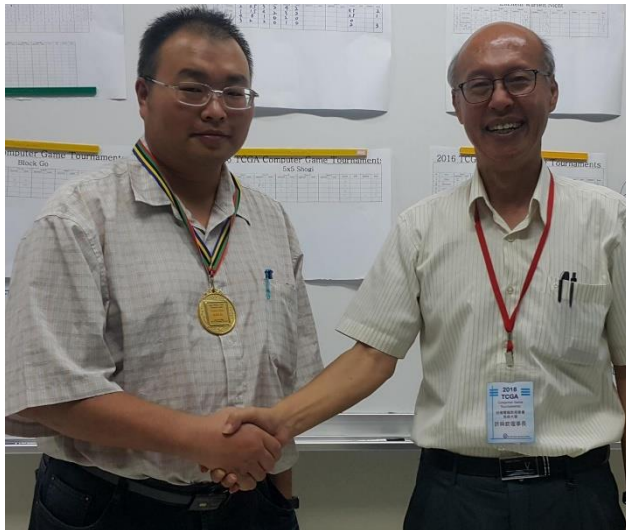
- Beginning from the 2<sup>nd</sup> semester of the 3<sup>rd</sup> year, undergraduate students can apply for the permission to study the graduate-level courses. Once approved, such students become “pre-qualified graduate students”.
- The pre-qualified graduate students should receive their bachelor degrees on or before the 2<sup>nd</sup> semester of the 4<sup>th</sup> year (or the 8<sup>th</sup> semesters in total), and participate the examination or the application selection to enter the master program. Once approved, such students become “true” graduate students of CSIE.
- Students pay full tuition fee in the 4<sup>th</sup> year, may apply for upto 50% refund in their 1<sup>st</sup> year of graduate study.

## option



# Great Achievements by our students (in AI field)

- **6 Gold 4 Silver 2 Bronze Prizes** from ICGA Computer Olympic Competition, 2020.
- Chinese Chess Artificial Intelligent Software—**NDHU 7**, successfully challenged human brain for the **World Record**, on **June, 30, 2013**.
- Chinese Chess Artificial Intelligent Software—**Cold Milk**, won Professional Chess Player (Level 5) in November, 2012.





# Great Achievements by our students



AI+4  
Data Security  
Cloud Gaming  
Computing  
Internet  
Social Network  
MANET, WSN  
Fog AR  
IoT  
Blockchain  
VR  
e-Learning  
Internet Security  
K12 Wearable  
FinTech  
Security  
5G  
SDN  
IR

THE 24TH  
**2018 TANET**  
Taiwan Academic Network Conference  
臺灣網際網路研討會@NCU

科技部資訊工程X智慧計算學門成果發表會

## 最佳論文獎

以區塊鏈建置學分幣完成公平的校園選課系統

楊慶隆, 陳識宇, 高語謙, 向思遠, 陸海量, 莊份庭

### 大會主席

教育部  
資訊及科技教育司代理司長

劉文惠

國立中央大學  
電子計算機中心主任

周立德

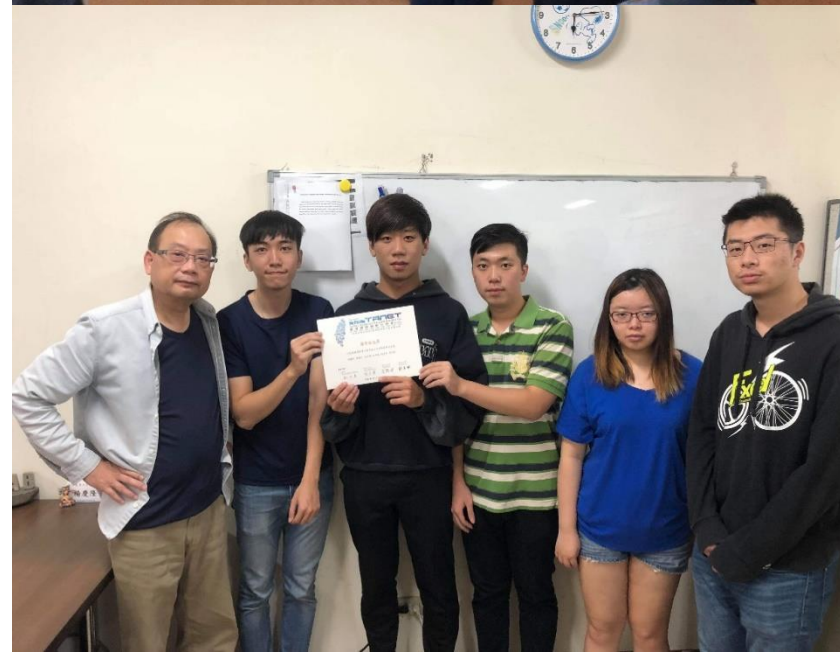
國立中央大學  
資電學院院長

范國清

國立中央大學  
管理學院院長

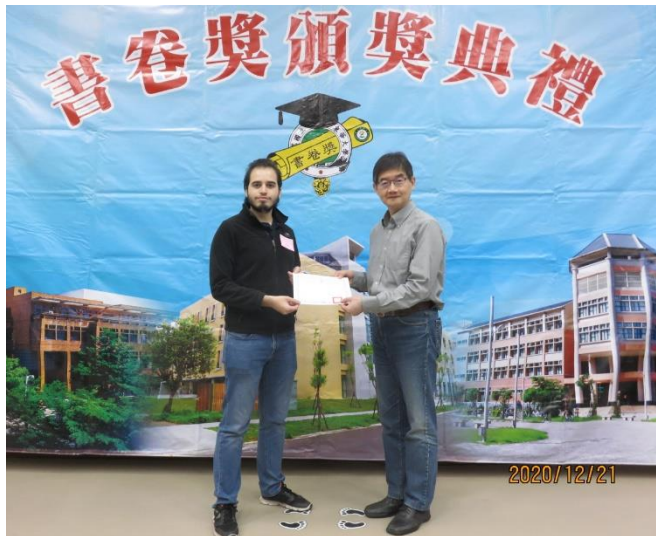
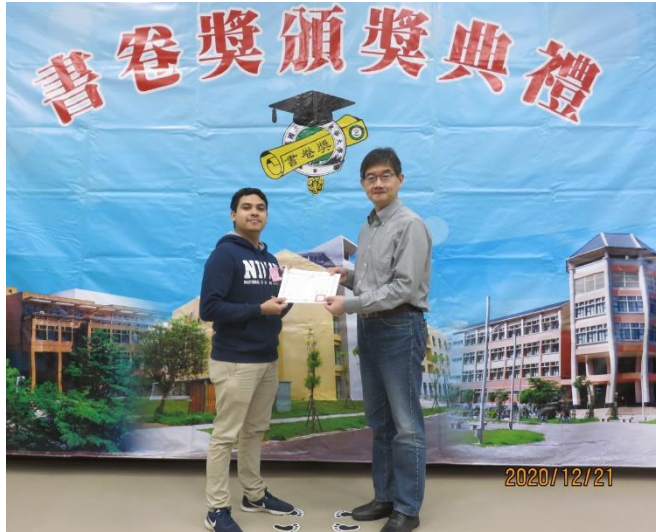
許秉瑜

中華民國 107 年 10 月 24 日





# Great Achievements by our students





# Great Achievements by our students



# Enthusiastic Learning



Lecture Seminar



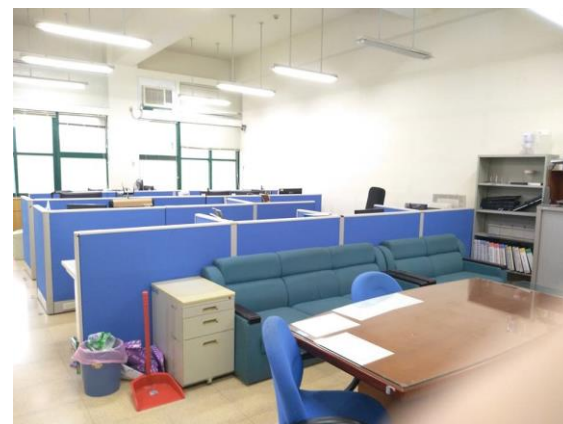


# Advanced research equipments

Computer Classrooms, Movie Studio, Maker Space

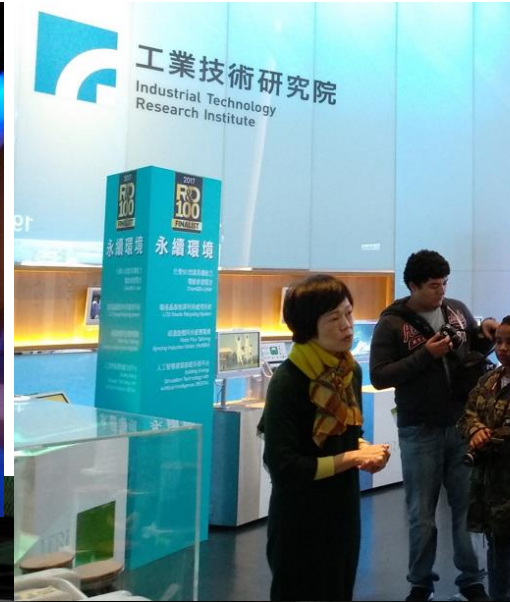
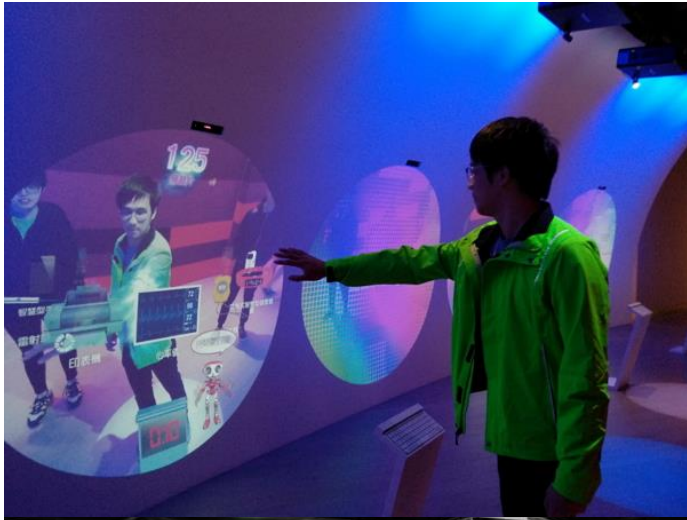








# NDHU CSIE , Industrial Visit





# NDHU CSIE , Industrial Visit





# NDHU CSIE , Like A Family

- ✓ School Level—Offices of International Affairs, Academic Affairs, Student Affairs
- ✓ Department—CSIE Family Mentors / Advisors, family companions
- ✓ Staff—Bilingual Staff in department office
- ✓ Class—Classmates interaction
- ✓ Supporting Groups—Student Associations, Sport Teams, Religion gatherings...





# NDHU CSIE , Like A Family





# NDHU CSIE , Like A Family





# NDHU CSIE , Like A Family





# NDHU CSIE, Spirit of King !





# Campus Events w/ CSIE Int'l Students

## Int'l Cultural Festival & Fusion Cuisine Competition

2018.05.17





# Campus Events w/ CSIE Int'l Students

## Int'l Cultural Night on 2018.11.22



# Campus Events w/ CSIE Int'l Students

## Int'l Cultural Night on 2020.11.22





# **On-Campus Events w/ Int'l Students**

## **Int'l Cultural Night on 2020.11.22**



# **Benefits to study NDHU CSIE**

- ✓ **Amazing Natural Wonders / Comfortable Living Environment**
- ✓ **NDHU Scholarship for excellent students**
- ✓ **Great Academic / Research Environment**
- ✓ **Spacious and Fully Equipped Research Lab**
- ✓ **Close interaction with professors and classmates**
- ✓ **Hands-On projects in all research labs**
- ✓ **Practical Training opportunities on-/off- campus, NDHU Innovation Incubation Center, and allied companies.**



# Be Part of the Top Team ~Join Dept of CSIE, NDHU~

**Department of Computer Science & Information Engineering  
National Dong Hwa University, Taiwan, R.O.C.**

國立東華大學資訊工程學系

<http://www.csie.ndhu.edu.tw/en/>

