



# 國立東華大學

## National Dong Hwa University

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

# PENGENALAN JURUSAN ILMU KOMPUTER UNIVERSITAS DONG HWA TAIWAN

Spring 2020



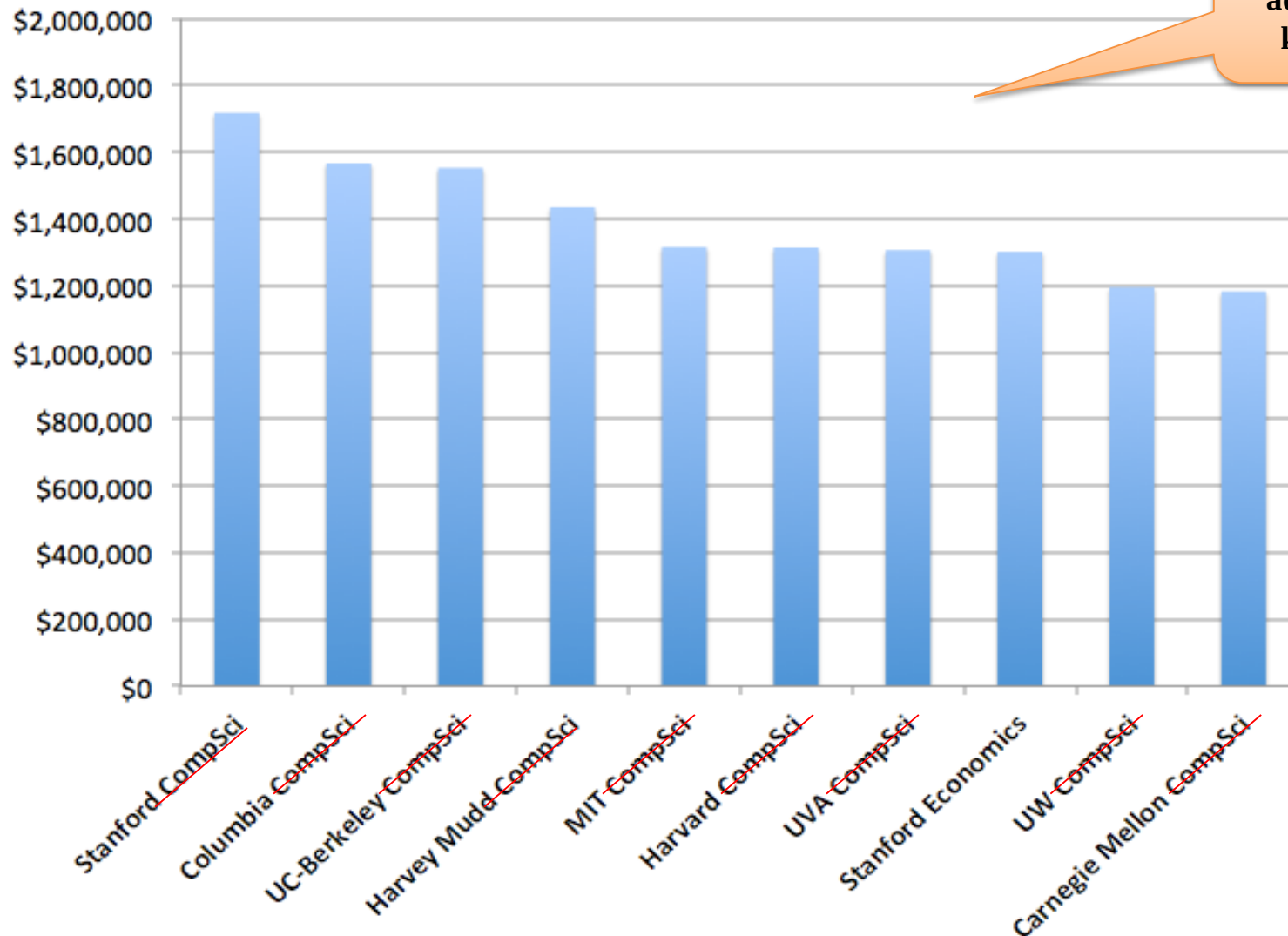
# ~ Why Study Computer Science? ~



# The Most Valuable Degrees in America

## The 10 Programs With the Highest 20-Year Return

9 Dari 10  
adalah ilmu  
komputer



(Data Source : <http://www.theatlantic.com/business/archive/2014/03/which-college-and-which-major-will-make-you-richest/359628/> )

# 15 Jurusan dengan penghasilan paling tertinggi

1. Teknik Biomedis
2. Biokimia
3. Ilmu Komputer
4. Teknik Rekayasa software
5. Teknik Lingkungan
6. Teknik Sipil
7. Geologi
8. Manajemen Sistem Informasi
9. Teknik Perminyakan
10. Matematika Terapan
11. Matematika
12. Management Konstruksi
13. Keuangan
14. Fisika
15. Statistik

7 diantaranya berhubungan dengan Computer Science

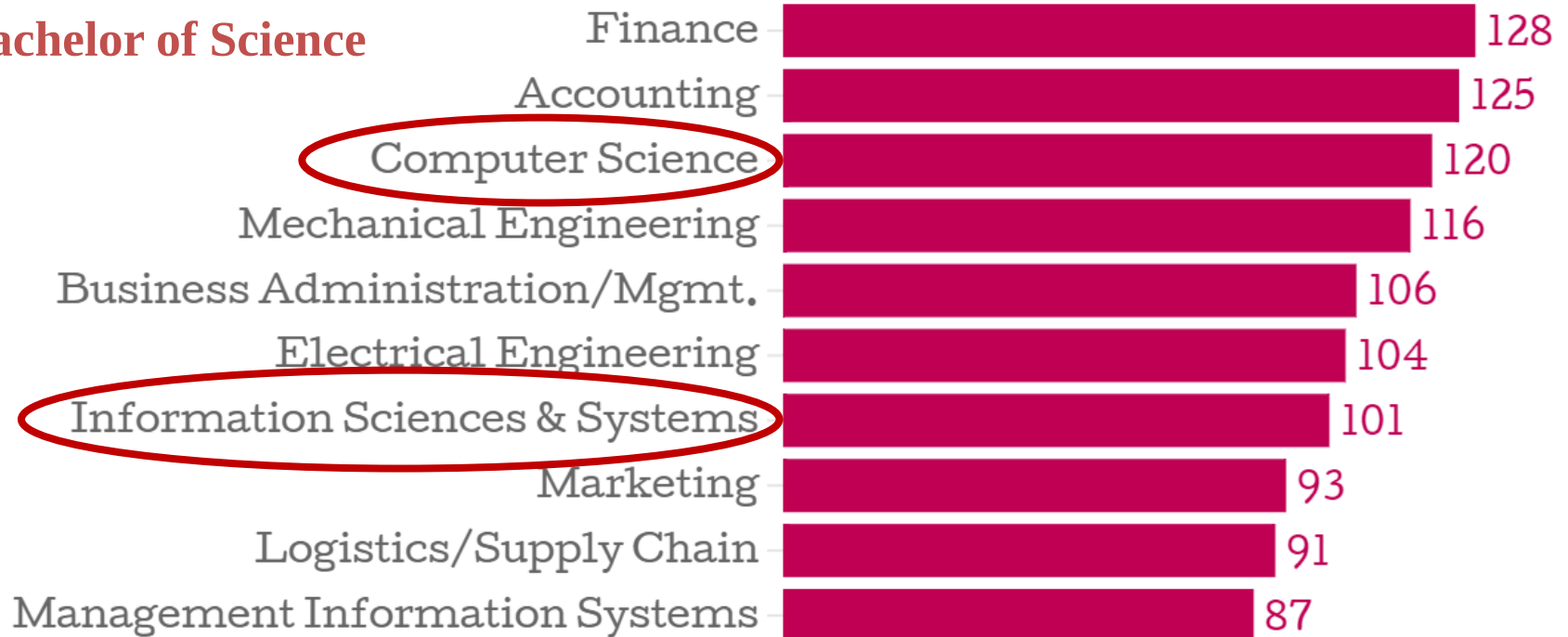
(Data Source : <http://www.forbes.com/pictures/lmj45jgfi/the-college-majors-that-are-worth-it/> )

# Forbes—Jurusan Paling Banyak Dapat Pekerjaan-2015

Top Bachelor's Degrees In Demand

No. of Respondents That Will Hire

## Bachelor of Science



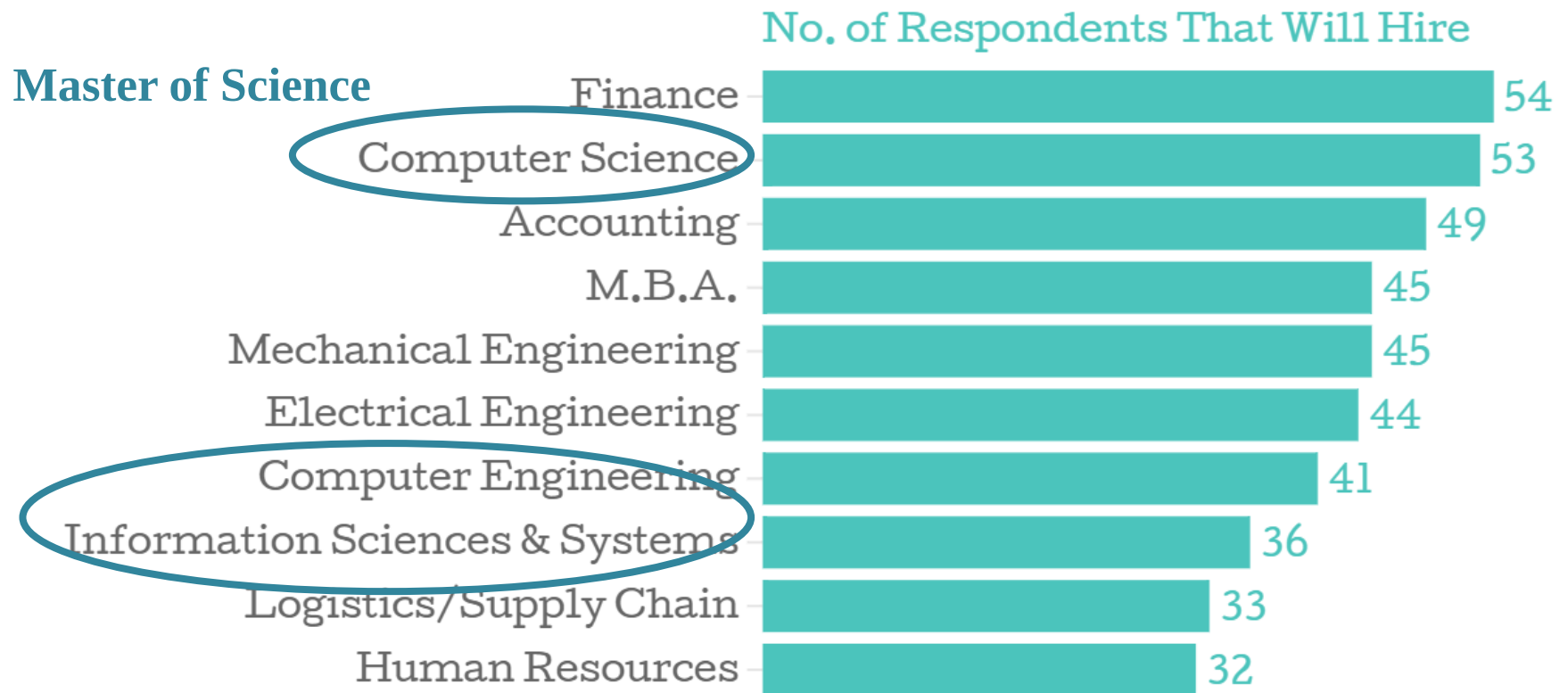
Made with Chartbuilder

Data: National Association of Colleges and Employers

(Data Source : <http://www.forbes.com/sites/susanadams/2014/11/12/top-degrees-for-getting-hired-in-2015/> )

# Forbes—Jurusan Paling Banyak Dapat Pekerjaan-2015

Top Master's Degrees In Demand



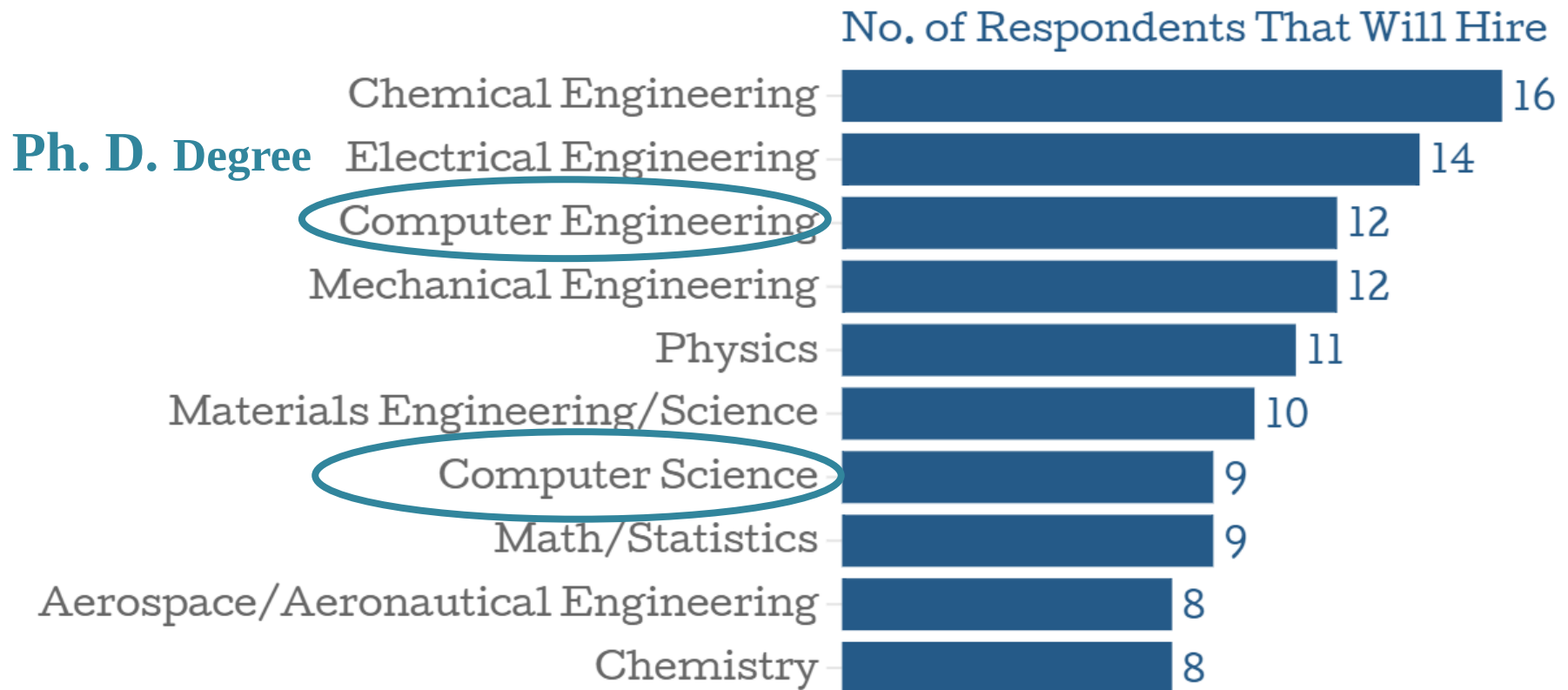
Made with Chartbuilder

Data: National Association of Colleges and Employers

(Data Source : <http://www.forbes.com/sites/susanadams/2014/11/12/top-degrees-for-getting-hired-in-2015/> )

# Forbes—Jurusan Paling Banyak Dapat Pekerjaan-2015

Top Doctorate Degrees In Demand



Made with Chartbuilder

Data: National Association of Colleges and Employers

(Data Source : <http://www.forbes.com/sites/susanadams/2014/11/12/top-degrees-for-getting-hired-in-2015/> )



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# Why National Dong Hwa University in Taiwan?

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# Kampus Terbesar dan terindah di Taiwan



# National Dong Hwa University

Universitas komprehensif yang unggul menekankan 2 aspek yaitu penelitian akademik dan pengajaran.

Semangat : **Kebebasan 、 Demokrasi 、 Kreatifitas 、 Unggul**  
Nilai : **Berkelanjutan 、 Inovasi 、 Keberagaman 。**

| # Sekolah Tinggi | # Sarjana Programs | # Magister Programs | #Executive Magister Programs | #Doctoral Programs |
|------------------|--------------------|---------------------|------------------------------|--------------------|
| 8                | 39                 | 43                  | 14                           | 16                 |

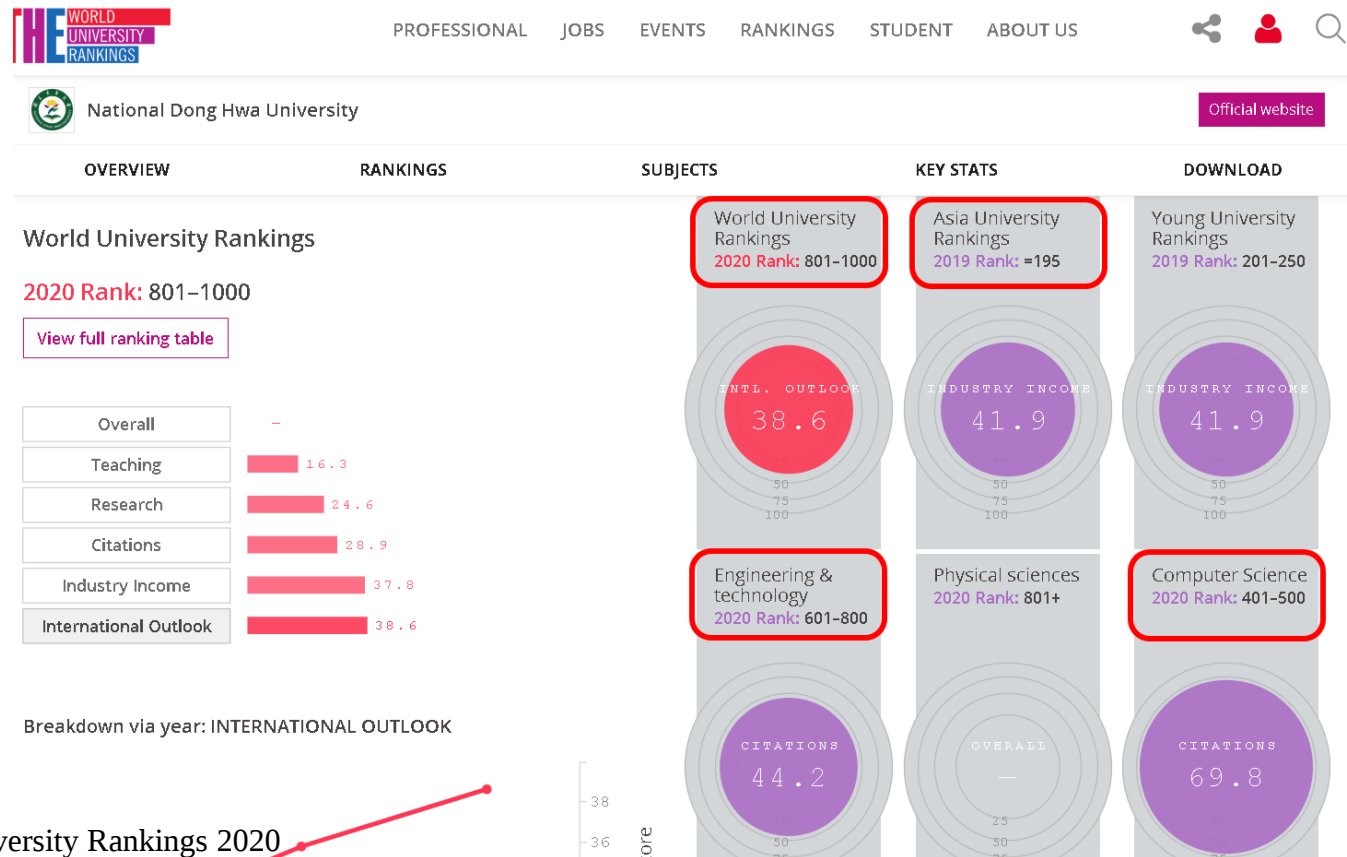
| Sarjana | Magister | Doktor | Total  | Dosen             | Rasio      | Staf |
|---------|----------|--------|--------|-------------------|------------|------|
| 7,600+  | 2,000+   | 390+   | 9,900+ | 620+<br>(95% PhD) | 15.9 : 1.0 | 360+ |

Status As 2019.11.29

Page 11

# Times Higher Education World University Ranking 2020

NDHU ranks **10<sup>th</sup>** in Taiwan, **195<sup>th</sup>** in Asia, **801~1000<sup>th</sup>** in the World  
Dept. of CSIE ranks **6<sup>th</sup>** in Taiwan, **413<sup>th</sup>** in the World



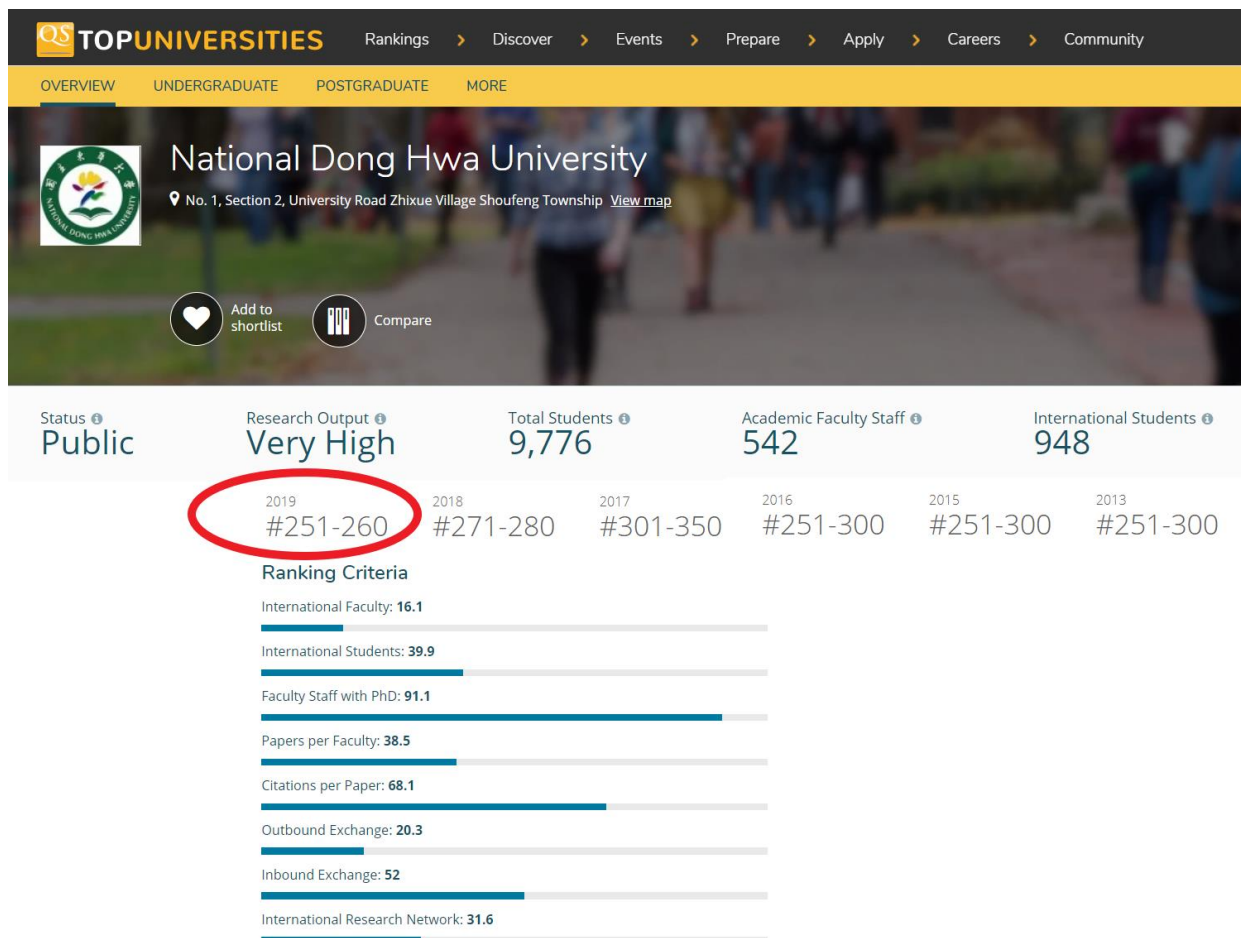
Breakdown via year: INTERNATIONAL OUTLOOK



泰晤士報高等教育特刊 World University Rankings 2020  
(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)

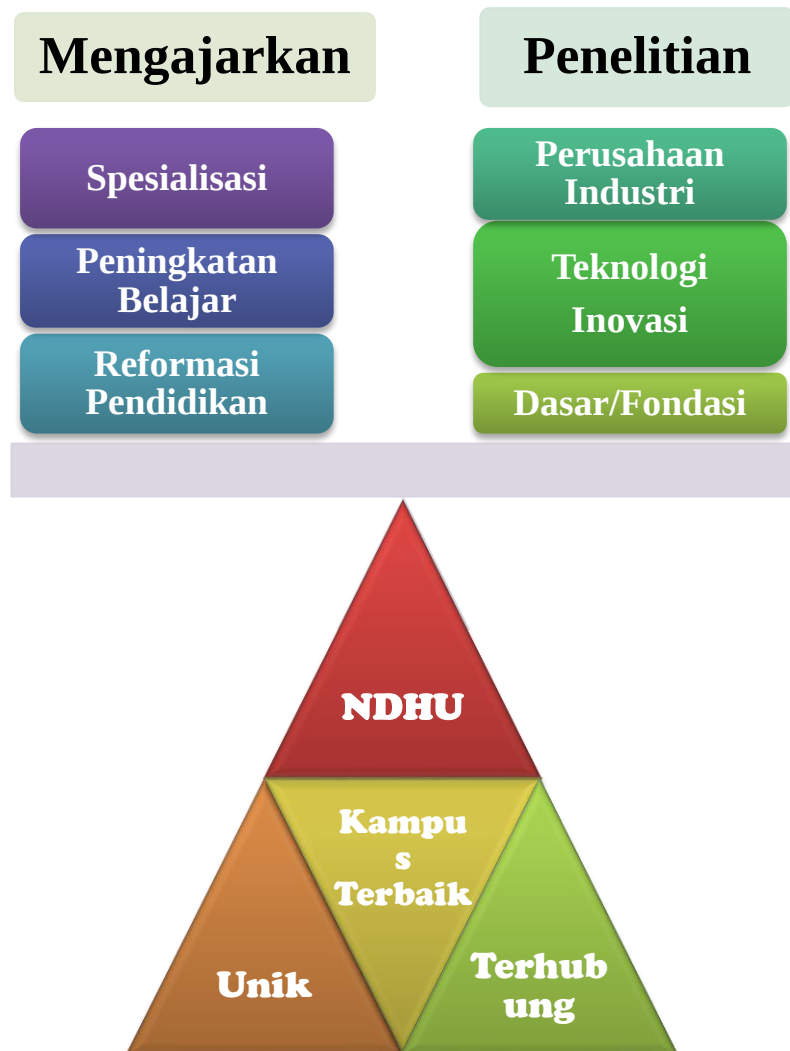
# QS Asian University Rankings

- 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>)

# Prospek NDHU



- Universitas Komprehensif yang unggul
- Menekankan pada penelitian akademik dan pengajaran
- Memperkuat spesialisasi pengajar
- Memperkaya pembelajaran yang mendalam dalam ruang lingkup yang luas
- Menghasilkan pemimpin yang kompeten, bertanggung jawab dan sukses dalam masyarakat dimasa depan
- Mengembangkan fitur daerah yang unik dengan mengintegrasikan sumber daya alam dan warisan budaya
- Menghubungkan dengan akademik internasional dan merekrut mahasiswa first class dan akademisi di seluruh dunia
- Universitas Terbaik di Taiwan

# Kampus Internasional

- Saling bertukar kesempatan di Summer/Winter
- Bekerjasama lebih dari 124 universitas diseluruh dunia
- Sarjana Dan Magister Program diajarkan dalam bahasa inggris
- Beasiswa untuk mahasiswa internasional
- Gratis belajar di kelas mandarin
- Staf yang ahli dalam dua bahasa untuk membantu mahasiswa



# Mahasiswa Internasional dalam Kampus

|                         | Tahun Ajaran 2015-16 | Tahun Ajaran 2016-17 | Tahun Ajaran 2017-18 | Tahun Ajaran 2018-19 | Tahun Ajaran 2019-20 |
|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Internasional</b>    | <b>233</b>           | <b>271</b>           | <b>269</b>           | <b>338</b>           | <b>389</b>           |
| <b>Exchange</b>         | 388                  | 348                  | 137                  | 130                  | 179                  |
| <b>Oversea Chinese</b>  | 318                  | 397                  | 436                  | 428                  | 430                  |
| <b>Chinese Language</b> |                      |                      | 54                   | 54                   | 89                   |
| <b>Total</b>            | <b>939</b>           | <b>1016</b>          | <b>896</b>           | <b>950</b>           | <b>1087</b>          |

Data ini diambil sesuai status per 2019.10.15. Mahasiswa Lulus Setiap Semester.

# Lingkungan E-Learning NDHU

- **Pusat Jaringan Akademik di Taiwan**
- **Lingkungan E-Learning yang Menyeluruh**

ex: Kelas belajar jarak jauh, Kelas Multimedia , platform pembelajaran , e-systems...dll.

- **Terhubung Penuh dengan Kecepatan Internet yang Cepat dengan Akses 24 jam**

Termasuk Gedung Akademik, Ruangan asrama, & Lapangan olahraga.



# Perpustakaan NDHU

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



Ruang Baca



Area Pertunjukan



Ruang mikrofilm

# Bangunan Kampus

Gedung Teknik (Kantor Jurusan Ilmu komputer dan Teknik Elektro )



Bangunan studi pribumi  
(suku asli)

# Campus at a glance







# Fasilitas Kampus

■ **Asrama : 6,000 Pendingin ruangan digaransikan untuk semua mahasiswa internasional**

■ Bus

■ Perpustakaan & Pusat Komputer

■ Tokobuku, Cafeteria, Restoran

■ Bank, Kantor Pos, Warung Kopi

■ **Arena Panjat Tebing**

■ **Bola Kriket, Sepak Bola, Lapangan Bola**

■ **Kolam Renang(in/outdoor)**

■ **Kayak (Sampan), Perahu**

■ Bola Basket, Bola Voli, Badminton, Tennis Lapangan

■ Gym, Latihan Beban, Lintasan Lari

■ Jalur Sepeda

■ Tamu Hotel



# Fasilitas Olahraga



# Sport Facility



# ~ Our Lives on Campus ~



# Asrama Modern & Ruang Hidup

- 6000 pendingin ruangan pribadi baru dengan kamar mandi di dalam.
- Ruang hidup yang besar dan hijau.
- **Asrama digaransikan untuk semua mahasiswa internasional.**
- **Ruang Doa**, Dapur, Ruang Komunitas, Pusat Belajar.
- manager dan polisi kampus bertugas 24 jam.
- Bus kampus beroperasi dari kampus ke kota dan sebaliknya setiap jam.
- Lingkungan yang nyaman dan terintegrasi.



# Asrama Modern (inside)



# Asrama Modern (facility)



# Fasilitas Kampus – Ruang Doa



# Various Eatery on campus



## Lakeside Brunch

| RICE<br>(with Salad or French fries)                                |         | SPAGHETTI<br>(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 桂蜜紅果茶                                        | NT\$45  |                                           |         |



# Transportation on campus



Shuttle buses run between NDHU campus to DownTown Hualien City



Street shops nearby



Train station next to NDHU Campus

# Kegiatan Luar Kampus



- Kayak, Sailboat, Rock Climbing, Diving, Whale Watching
- TV studio 、 3D Print 、 Maker Space



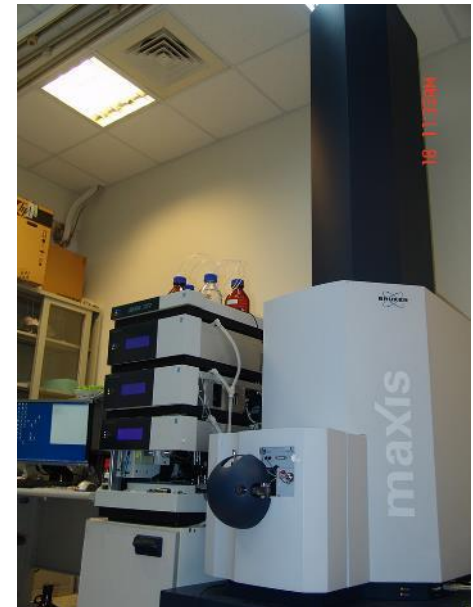
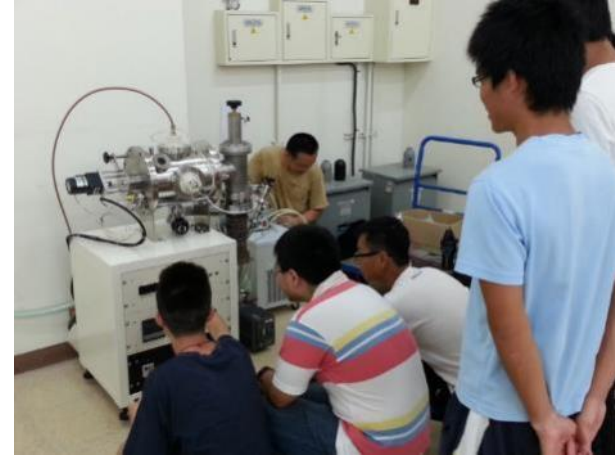
# Kegiatan Luar Kampus



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



# Peralatan Pendukung Pembelajaran yang Lengkap



# Student's Entertainment



Night Market



Concert Festival



Movie Theater



Ocean Beach

# Student's Entertainment



River Trackin, Natural Wonder



# Student's Entertainment

Hiking 、 Kayak 、 River Tracking 、 Natural Wonder



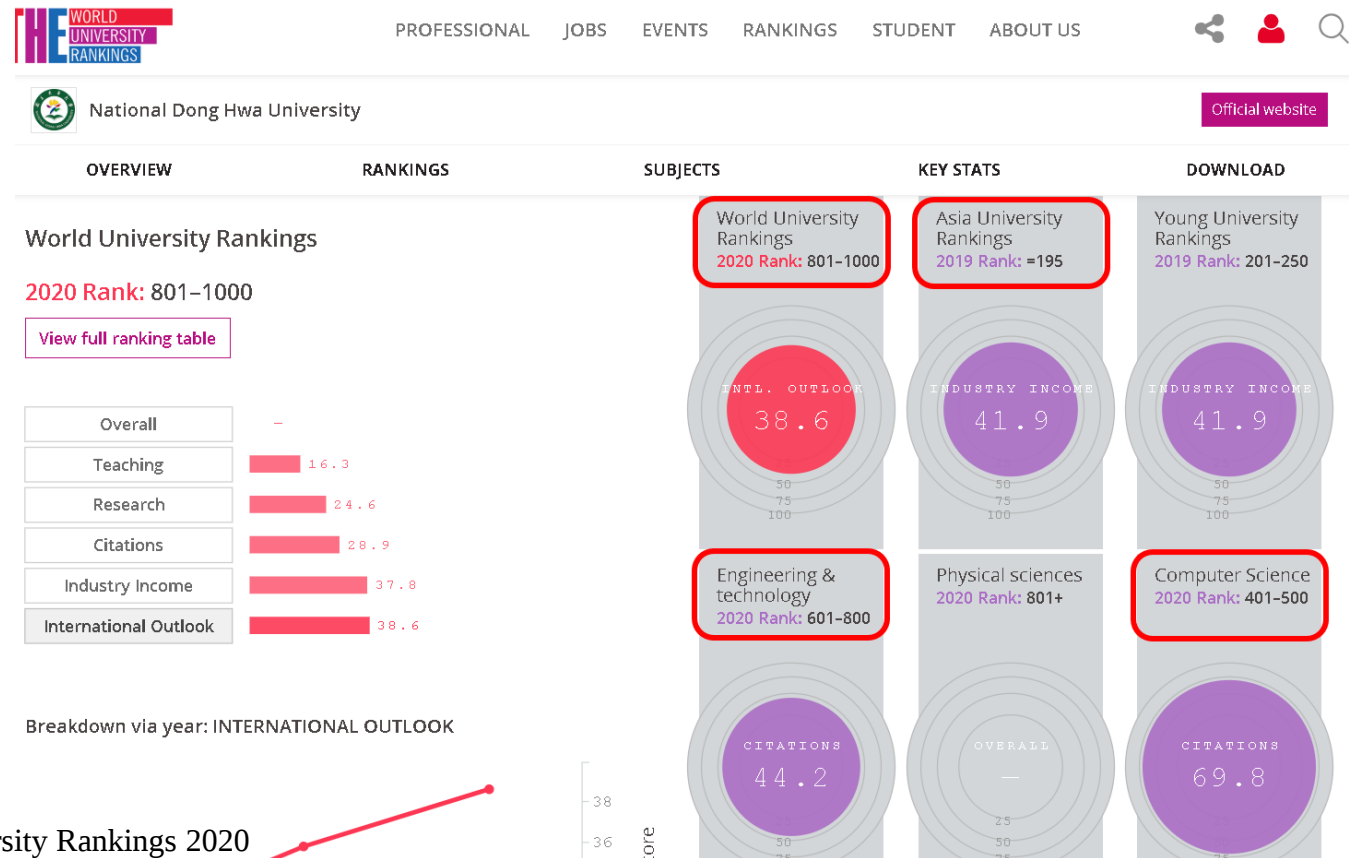
# ~ Our Study in Dept of CSIE ~

## Computer Science & Information Engineering



# Times Higher Education World University Ranking 2020

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泰晤士報高等教育特刊 World University Rankings 2020  
(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)

# Dept of CSIE ranks 413<sup>th</sup> (Taiwan 6<sup>th</sup>) in Computer Science subject in 2020 THE World Ranking of Academic Performance.

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**THE WORLD UNIVERSITY RANKINGS**

PROFESSIONAL JOBS EVENTS RANKINGS STUDENT ABOUT US

World University Rankings 2020 by subject: computer science

The 2020 Times Higher Education World University Rankings table for computer science uses the same trusted and rigorous performance indicators as our overall ranking, but the methodology has been recalibrated to suit the discipline.

This year's table has expanded to include 749 universities, up from 684 last year.

Read more...

**ELSEVIER**

2020

How to get your uni ranked

Show me universities best for overall ▼ in Taiwan x

Or, find specific universities by name

| RANKING |                                                                                                                               | SCORES                 |                                 |                           |                      |
|---------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------|---------------------------|----------------------|
| Rank    | Name<br>Country/Region                                                                                                        | No. of FTE<br>Students | No. of FTE<br>staff per student | International<br>Students | Female:Male<br>Ratio |
| 67      | National Taiwan University<br><a href="#">Taiwan</a>                                                                          | 27,254                 | 11.1                            | 11%                       | 40 : 60              |
| 126-150 | National Tsing Hua University<br><a href="#">Taiwan</a>                                                                       | 14,853                 | 18.0                            | 10%                       | 42 : 58              |
| 151-175 | National Taiwan University of<br>Science and Technology<br>(Taiwan Tech)<br><a href="#">Taiwan</a><br><a href="#">Explore</a> | 8,340                  | 19.5                            | 15%                       | 30 : 70              |
| 176-200 | National Chiao Tung<br>University<br><a href="#">Taiwan</a>                                                                   | 12,017                 | 16.7                            | 12%                       | 30 : 70              |
| 301-400 | National Cheng Kung<br>University (NCKU)<br><a href="#">Taiwan</a><br><a href="#">Explore</a>                                 | 20,663                 | 13.7                            | 13%                       | 37 : 63              |
| 401-500 | National Dong Hwa University<br><a href="#">Taiwan</a><br><a href="#">Explore</a>                                             | 10,269                 | 18.1                            | 9%                        | 51 : 49              |
| 401-500 | National Sun Yat-Sen<br>University<br><a href="#">Taiwan</a>                                                                  | 9,190                  | 13.2                            | 6%                        | 39 : 61              |
| 401-500 | National Taiwan Normal<br>University<br><a href="#">Taiwan</a>                                                                | 10,789                 | 12.1                            | 24%                       | n/a                  |

| 2020 THE 世界大學排名：電腦科學（台灣） |      |          |           |                 |                       |          |          |         |
|--------------------------|------|----------|-----------|-----------------|-----------------------|----------|----------|---------|
| 世界排名                     | 台灣排名 | 學校名稱     | Citations | Industry Income | International Outlook | Research | Teaching | Overall |
| 67                       | 1    | 國立台灣大學   | 39        | 84.1            | 29.1                  | 67.3     | 72.3     | 58.993  |
| 126-150                  | 2    | 國立清華大學   | 42.6      | 78.5            | 27.9                  | 58.7     | 40.9     | 47.613  |
| 151-175                  | 3    | 國立台灣科技大學 | 59.5      | 47.6            | 27.3                  | 39.9     | 41.3     | 45.15   |
| 176-200                  | 4    | 國立交通大學   | 34.8      | 51.4            | 23.1                  | 50       | 47.5     | 43.123  |
| 301-400                  | 5    | 國立成功大學   | 24.1      | 60              | 18.4                  | 41.3     | 44.5     | 36.748  |
| 401-500                  | 6    | 國立東華大學   | 69.8      | 38.6            | 34.5                  | 14.8     | 13.3     | 32.143  |
| 401-500                  | 7    | 國立師範大學   | 33.9      | 51.6            | 26.4                  | 26.1     | 25.6     | 29.393  |
| 401-500                  | 8    | 國立中山大學   | 40.7      | 48.3            | 21.3                  | 22.2     | 23.3     | 28.855  |
| 401-500                  | 9    | 國立中央大學   | 24.8      | 58.2            | 24.1                  | 21.6     | 32.7     | 27.828  |
| 501-600                  | 10   | 亞洲大學     | 23.2      | 93.6            | 22.1                  | 19.7     | 22.6     | 25.408  |
| 501-600                  | 11   | 國立中正大學   | 31.9      | 40.2            | 14.5                  | 20.7     | 21.9     | 24.65   |
| 501-600                  | 12   | 逢甲大學     | 25.7      | 43.1            | 32.7                  | 13.8     | 16.5     | 20.765  |
| 601+                     | 13   | 國立政治大學   | 22.2      | 40.1            | 19.5                  | 17.2     | 17.3     | 19.923  |
| 601+                     | 14   | 國立中興大學   | 24.7      | 40.4            | 15.9                  | 12.7     | 18.4     | 19.335  |
| 601+                     | 15   | 中原大學     | 21.5      | 43.9            | 21.3                  | 18.8     | 10.7     | 18.555  |
| 601+                     | 16   | 淡江大學     | 10.2      | 38.4            | 17.6                  | 19.3     | 21.4     | 18.255  |
| 601+                     | 17   | 元智大學     | 24.6      | 46.3            | 21.2                  | 10.3     | 14.4     | 18.08   |
| 601+                     | 18   | 長庚大學     | 24.6      | 56.5            | 15.7                  | 12.3     | 10.8     | 17.698  |
| 601+                     | 19   | 朝陽科技大學   | 13.1      | 40.5            | 17                    | 14.6     | 16.5     | 16.233  |
| 601+                     | 20   | 國立高雄大學   | 11.6      | 41              | 22.6                  | 13.2     | 13.3     | 14.885  |



# Low Cost for Higher Education

| 2020~2021 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<br>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)<br>NTD       | +(3,060*credit)<br>NTD | +(102*credits)<br>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.

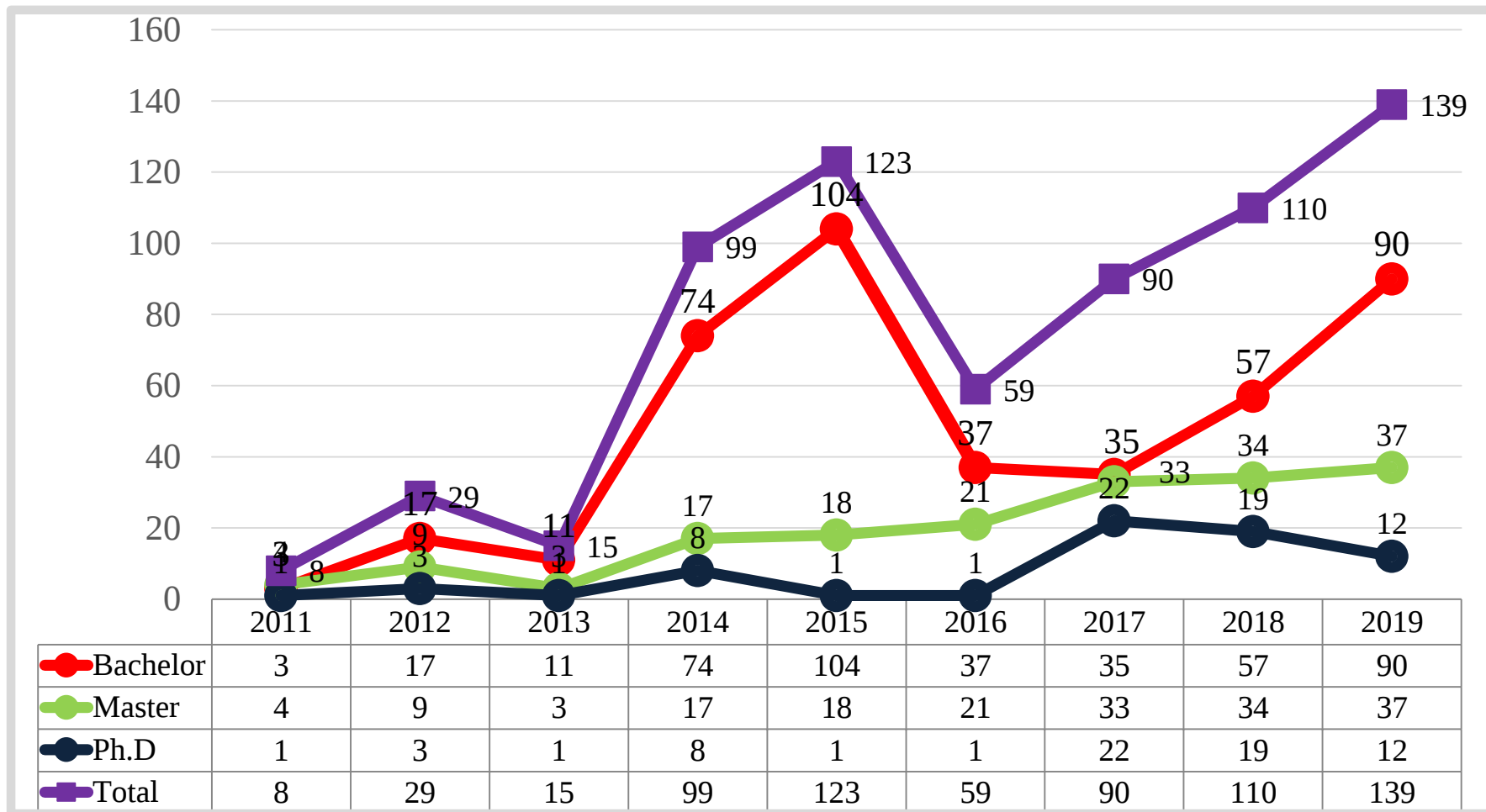


# Financial Aid / Scholarship

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

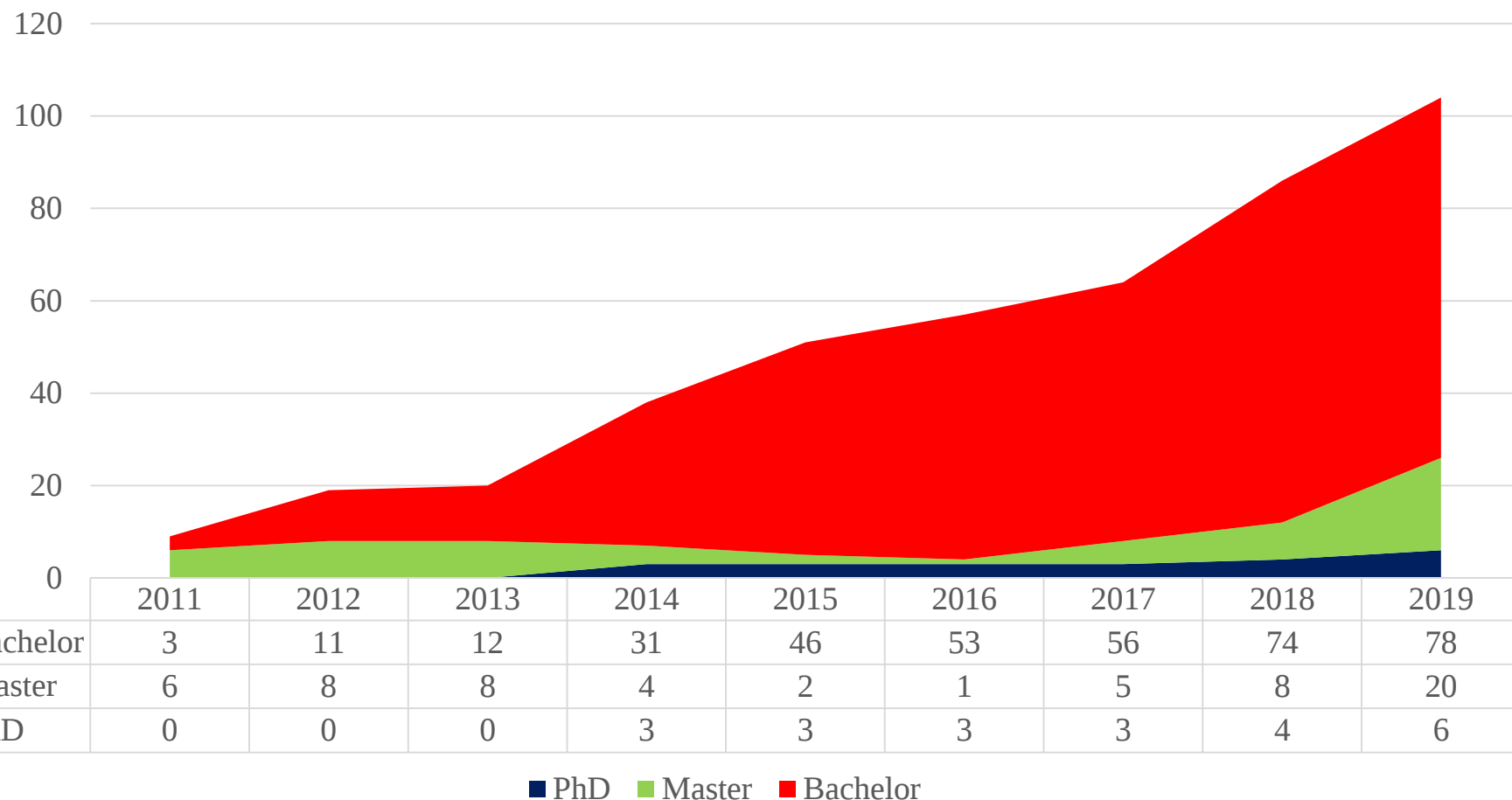
NDHU Financial Aid Application: <https://oia.ndhu.edu.tw/intl-student/intl-scholarship/intl-scholarship-information>

# Internationalized Department



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

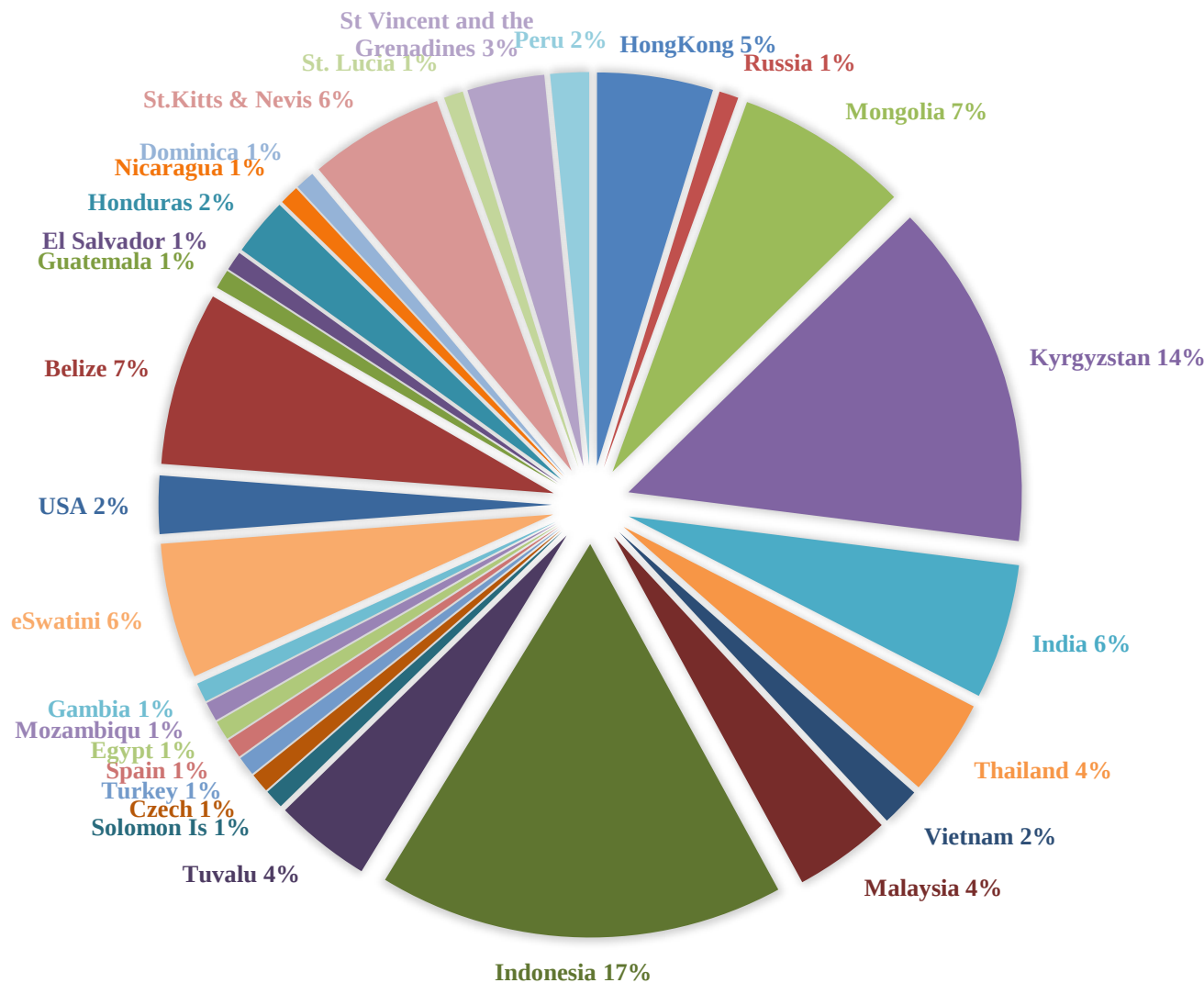
# Internationalized Department

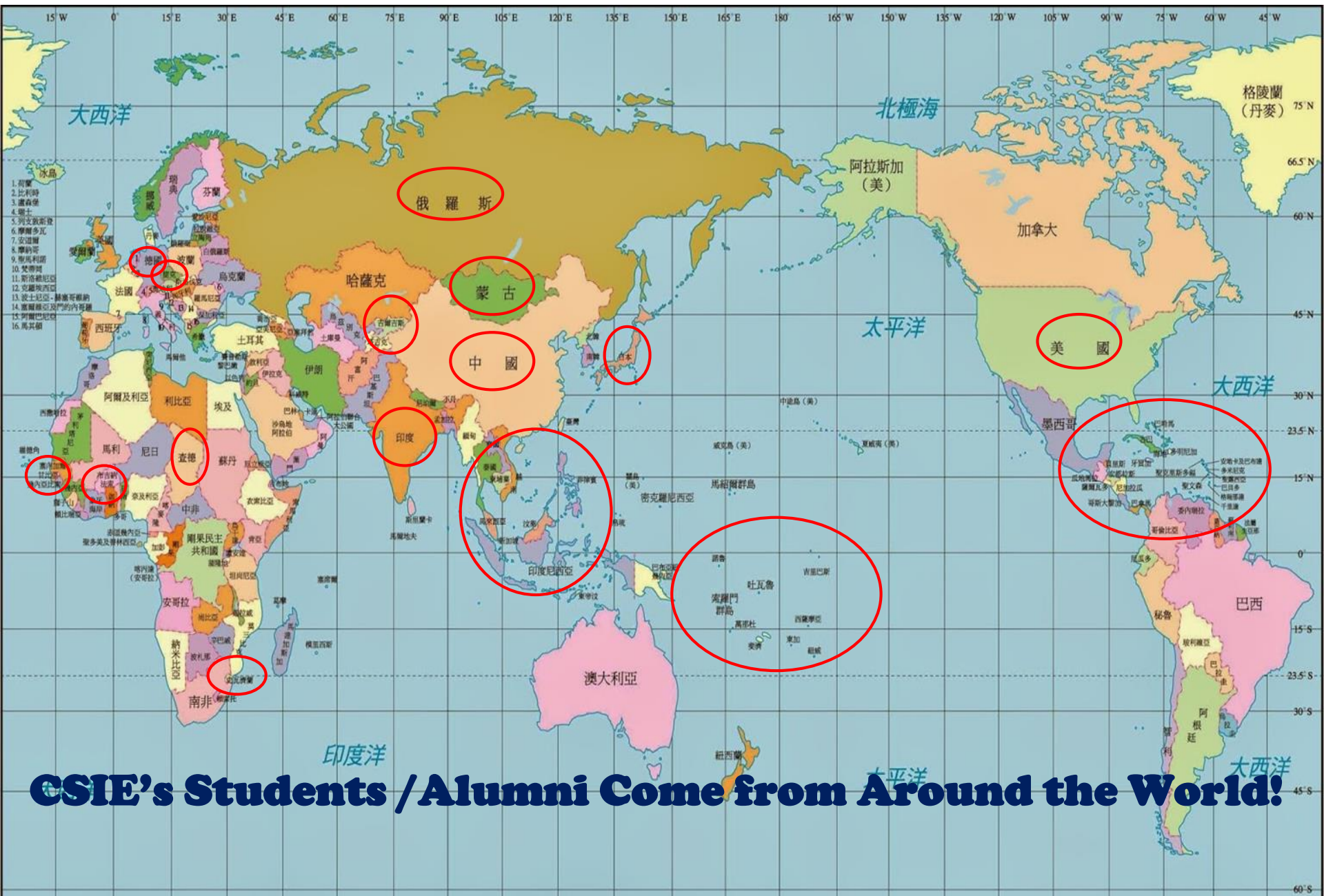


**CSIE International In-Status Students of each academic year**

# Jurusan yang Terinternasionalisasi

✓ Mahasiswa CSIE yang datang dari seluruh dunia!





**CSIE's Students / Alumni Come from Around the World!**

# Chinese Class for Int'l Students



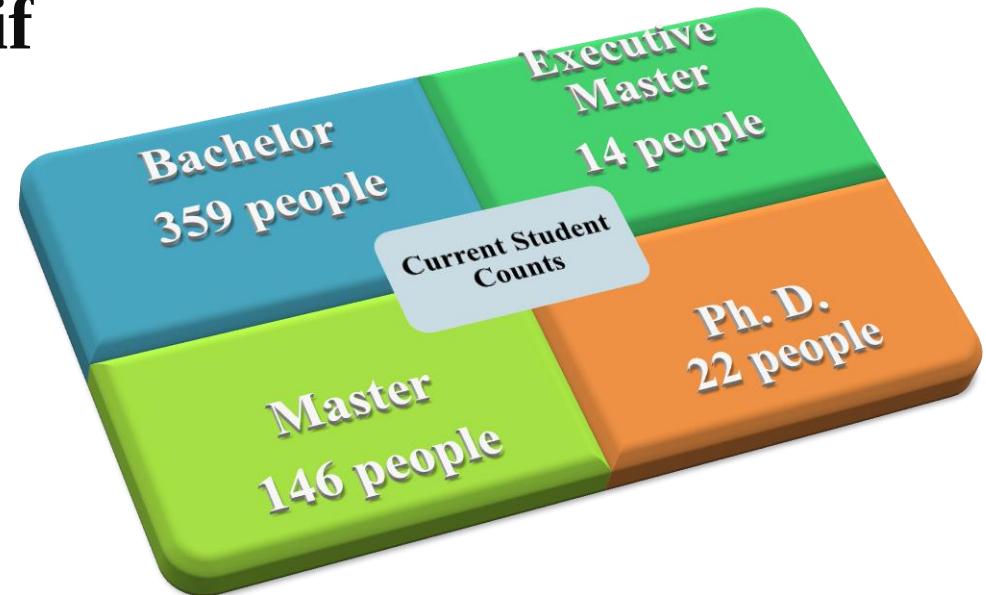
# Chinese Class for Int'l Students



# Department of Computer Science & Information Engineering (Ilmu Komputer)

- **Program Komprehensif**

- Sarjana (S1)
- Internasional S1
- Magister (S2)
- Internasional S2
- Eksekutive S2
- Ph.D. (S3)



- ✓ **Memperluas Kerjasama Internasional**
- ✓ **Memperluas kerjasama dalam bidang penelitian dan industri**
- ✓ **Mempeluas rekrutmen mahasiswa internasional**
- ✓ **Mengumpulkan banyak pengalaman dalam mengajar, meneliti, kualitas mata kuliah dan konseling mahasiswa**

# Tim Pengajar

## 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  
美國德州大學奧斯汀校區計算機科學博士  
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研究領域: 行動裝置管理、分散式系統、嵌入式系統、RFID網路環境、網路管理  
Mobile Computing, Distributed Systems, Embedded Systems, RFID Networks, Network Management  
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學術簡歷: Lattes

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研究領域: 網路工程、資訊系統與網路、物件導向軟體開發、資料庫、軟體工程、軟體測試與品質工程  
Network Engineering, Information Systems and Software, Object-Oriented Software Development, Software Testing and Quality Engineering  
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Artificial Intelligence, Computer Vision, Machine Learning  
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Computer Algorithms, Graph Theory, Bioinformatics  
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Optimization Methods and Applications, Soft Computing, Intelligent Decision  
聯絡電話: 33-853-4055  
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Institute of Information and Computer Education, National Taiwan Normal University, Taiwan  
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Information Security, Internet Services, Workflow, Software Engineering  
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Digital Learning, Learning Technology, Mobile Computing  
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Machine Learning, Wireless Network, Embedded Systems, Electronic Learning  
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Interconnection Networks, Error Diagnosis, Graph Theory, Fault Tolerant Computing  
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**陳晏秀 教授** Professor Chen Yan-Shou  
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**雍忠 教授** Professor Yung Chong  
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Dept. of Computer Science, New York University, U.S.A.  
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Cloud Computing, Web Technology, Mobile Software, Compiler  
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傳真: 33-853-4077  
E-mail: yung@csie.nthu.edu.tw  
學術簡歷: Lattes  
學術簡歷: Lattes

# Pengajar yang Berkompeten

- ✓ 20 full-time professors, semua tamatan PhD
- ✓ 13 professors ( > 65%) punya pengalaman bekerja di industri
- ✓ 15 diantaranya mendapat penghargaan nasional dan internasional :

**IET Fellow** of Institute of Engineering & Technology,

**Chess Championship** of Computer Olympiad,

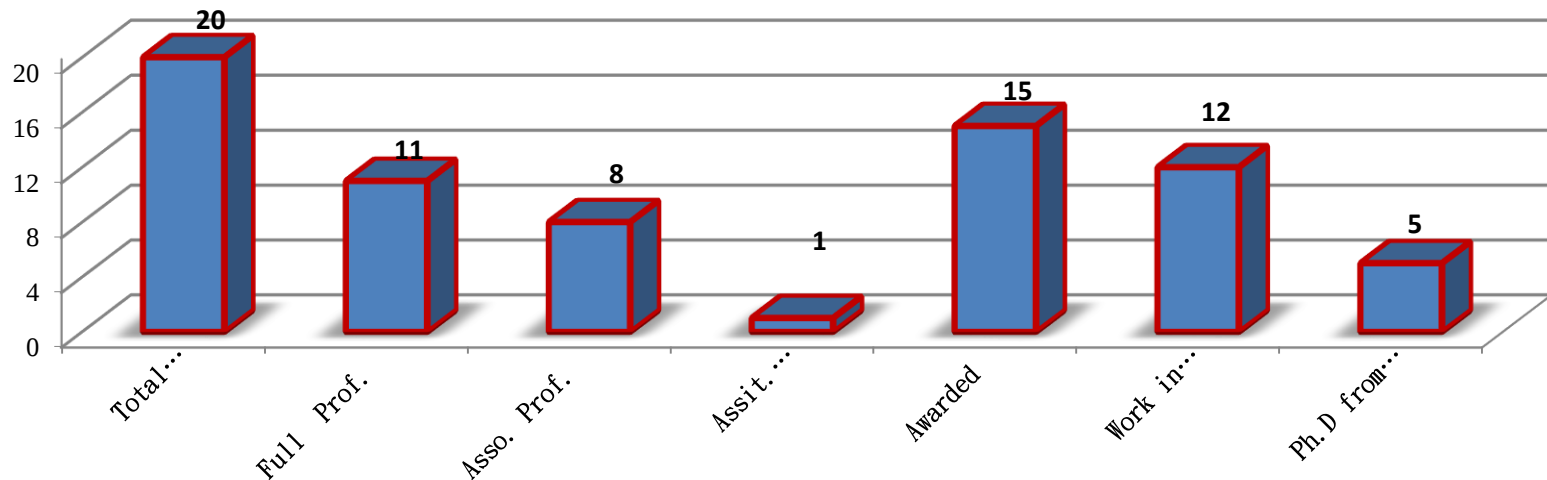
**Gold Prize** Award for “Ideas-Inventions-New Products” (IENA),

**Best** IICM Master / PhD Thesis Award,

**Top Scholar** of Journal of System & Software,

**Gold Prize** for 4C Digital Design Contest,

**Excellent Scholar** on National Science Council projects



# Professors dengan Penghargaan Kehormatan dari Institution of Engineering and Technology (IET)



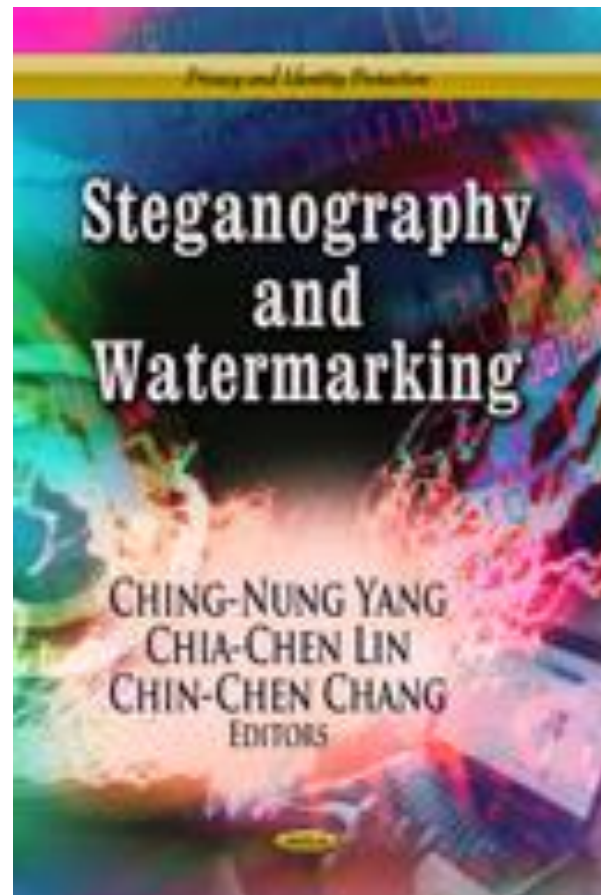
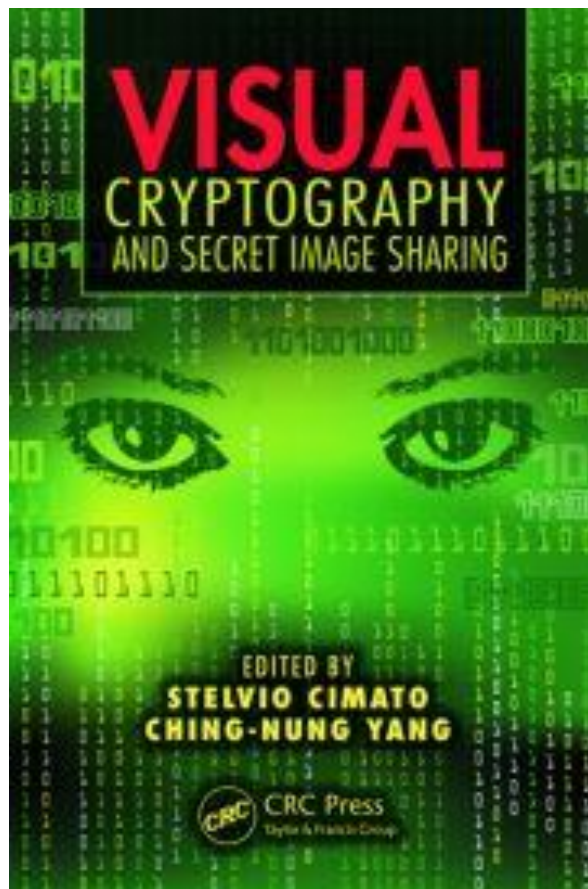
Prof. David Shin-Feng Lin  
Signal/Image Processing, Image/Video  
Compression



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

Page 53

# English Textbook yang di tulis oleh Professor NDHU



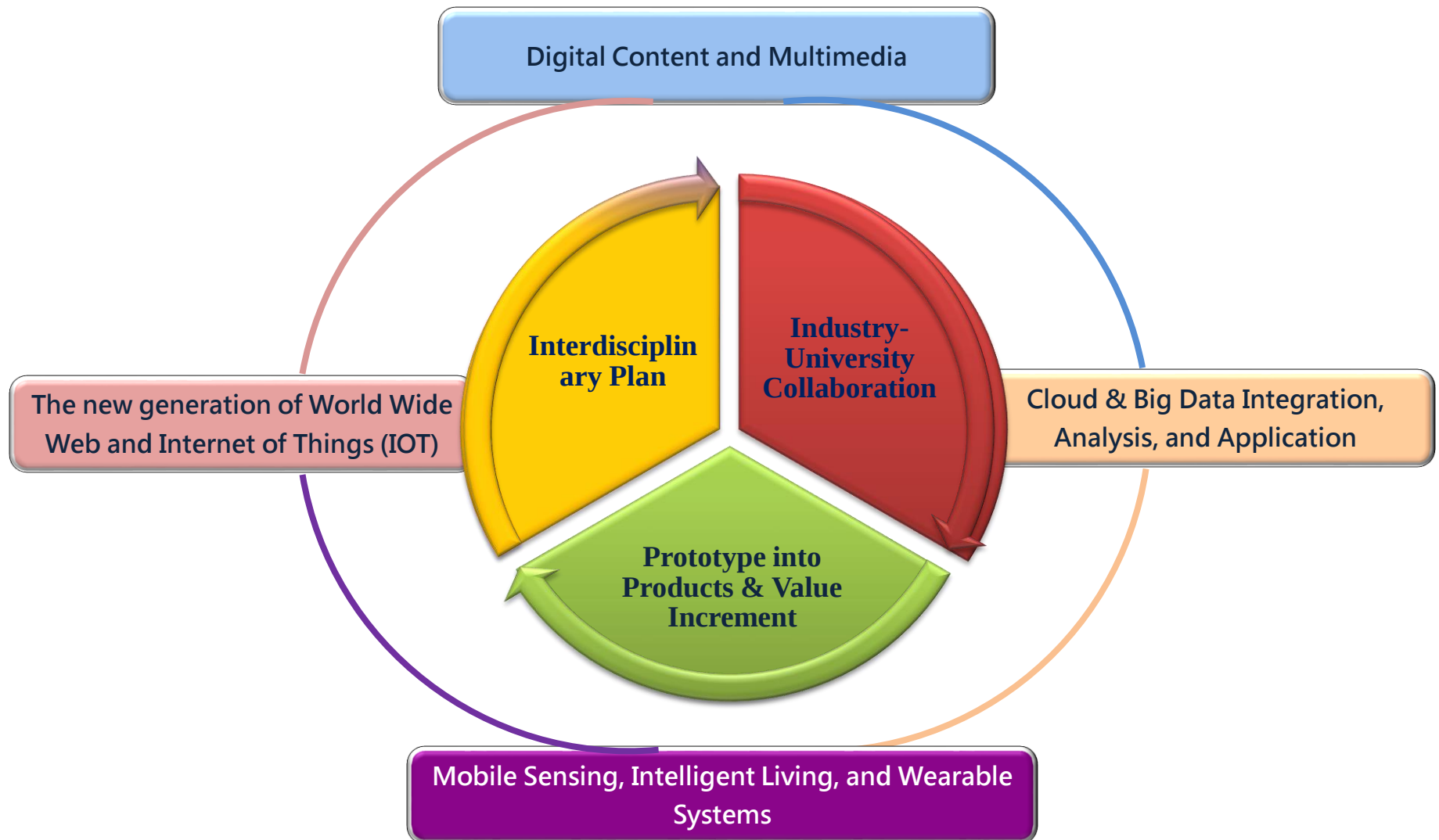
# Jenis Penelitian

1. Cloud Computing & Big-Data Processing
2. Multimedia Systems
3. Computer Networks and Distributed Systems
4. Data and Knowledge Base Systems
5. VLSI Circuit & Embedded Systems Design
6. Parallel & Distributed Computing
7. Mobile & Pervasive Computing
8. Software Engineering
9. Cryptography and Information Security
10. Computing Theories and Algorithms
11. Human-Machine Interaction Systems
12. Programming Languages and Compiler Systems
13. Artificial Intelligence & Learning Machine
14. Bioinformatics
15. Computer Graphics & Digital Games
16. Decision Support Systems

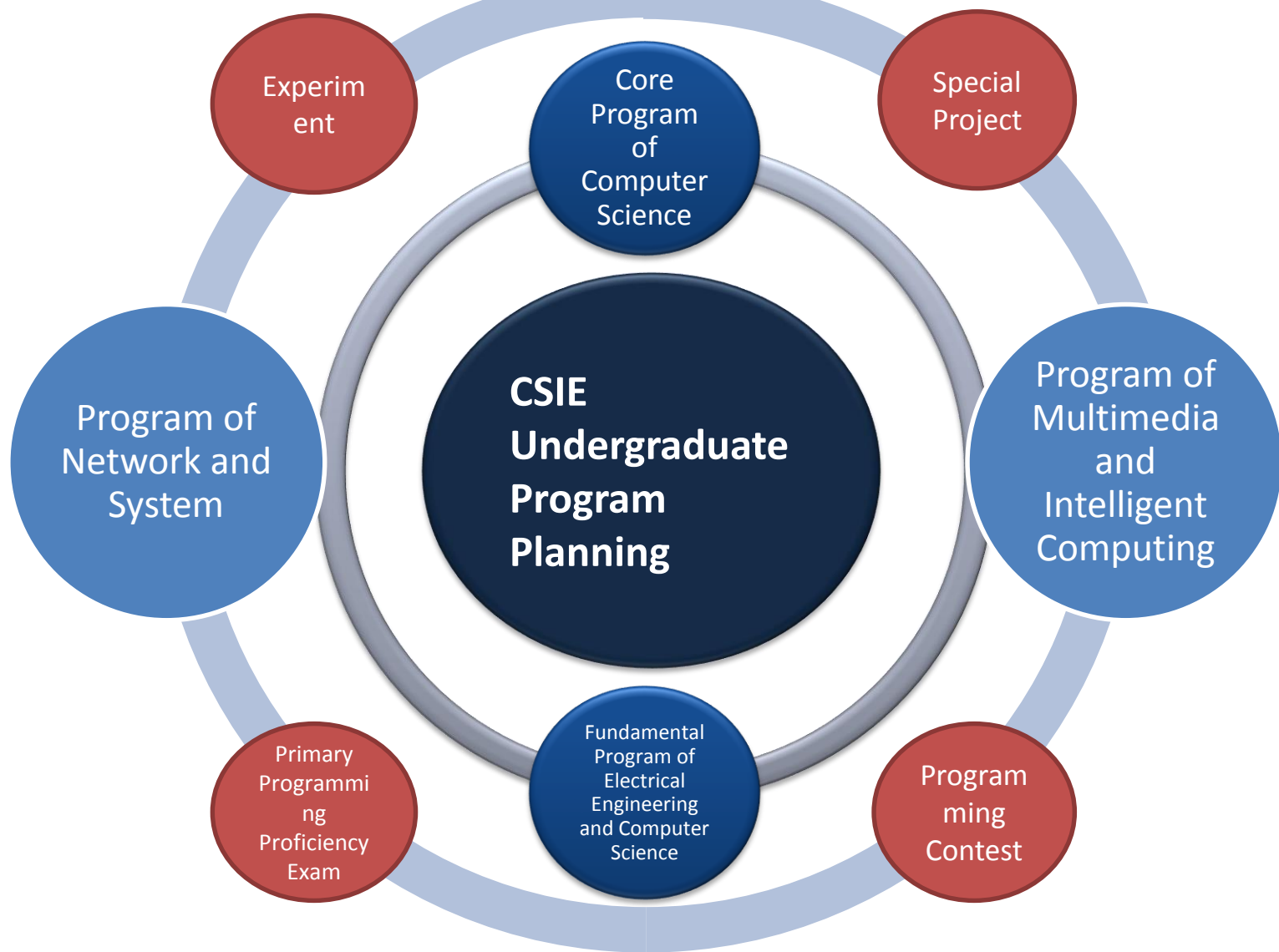
# 20 Laboratory Penelitian

- Artificial Intelligence Laboratory
- Image and Video Processing Laboratory
- Computer Systems Laboratory
- Software Engineering Laboratory
- Graphs and Bioinformatics Algorithm Laboratory
- Compiler Technology and Application Laboratory
- Multimedia Interaction Technology Laboratory
- Computer Vision and Virtual Reality Laboratory
- Pervasive Computing and Data Management Laboratory
- Cryptography and Information Security Laboratory
- Digital Image and Vision Computing Laboratory
- Decision Support Systems Laboratory
- Advanced Network Technology Laboratory
- Distributed Computing Laboratory
- Intelligent Systems Laboratory
- Internet Computing and Application Laboratory
- Learning Technology Laboratory
- Interconnection Network and Fault Tolerant Computing Laboratory
- Mobile Computing and Knowledge Engineering Laboratory
- Wireless Internet Service Engineering Laboratory

# Prioritas penelitian untuk Lima Tahun ke Depan



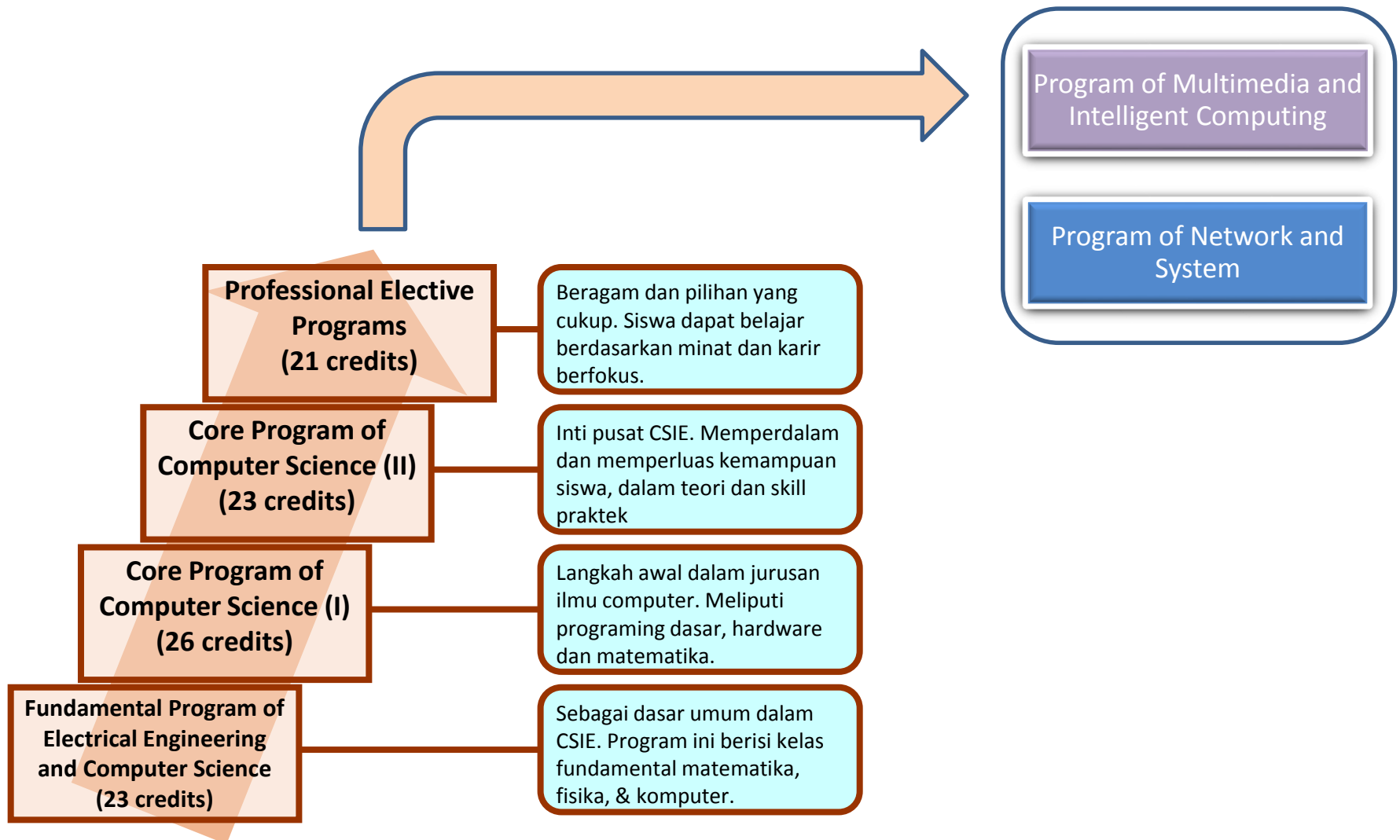
# Rancangan Program yang Fleksibel



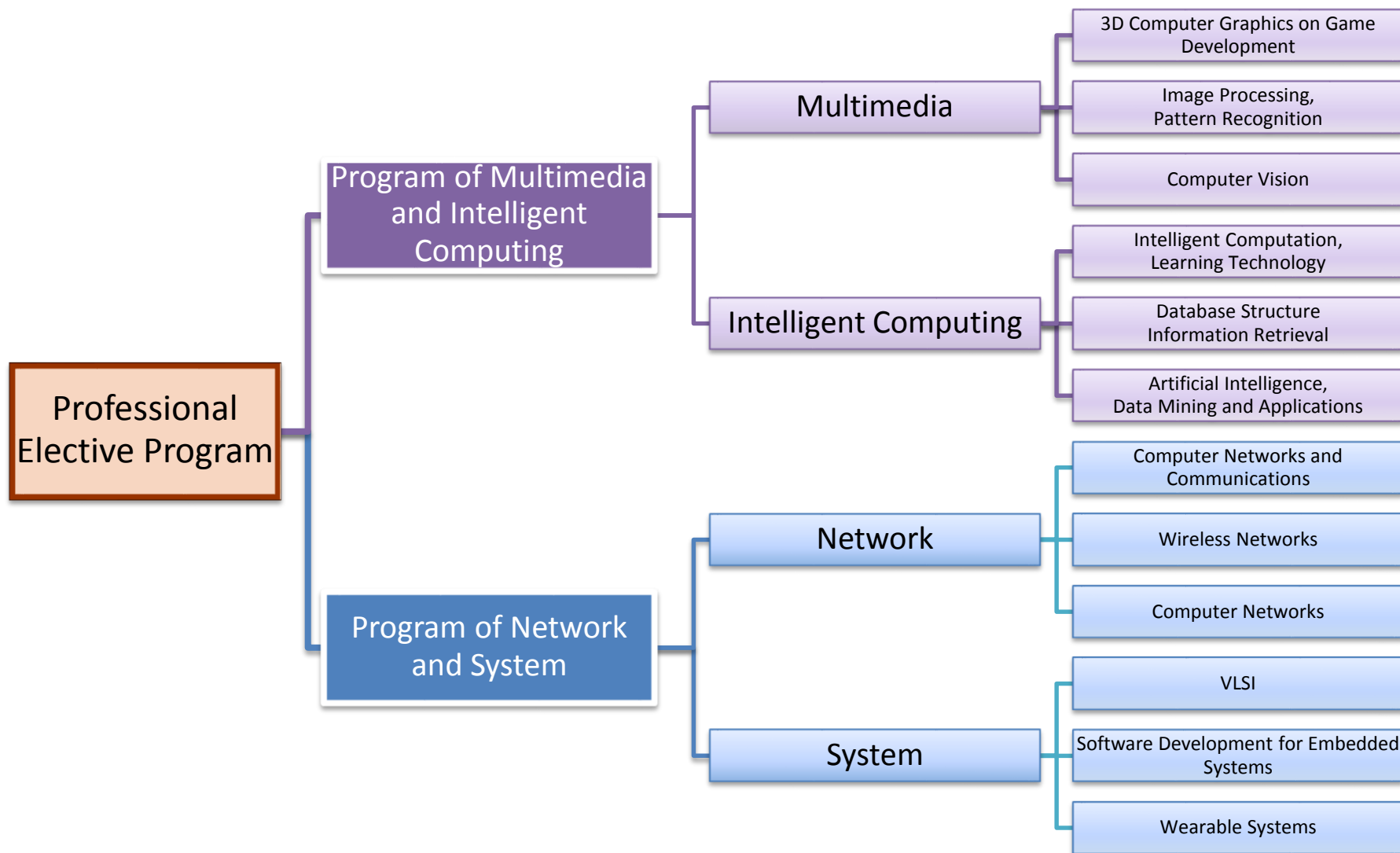
# Program yang Termodulasi

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

# CSIE Program Sarjana (S1)



# Program Pilihan profesional



# Independent Project Expo

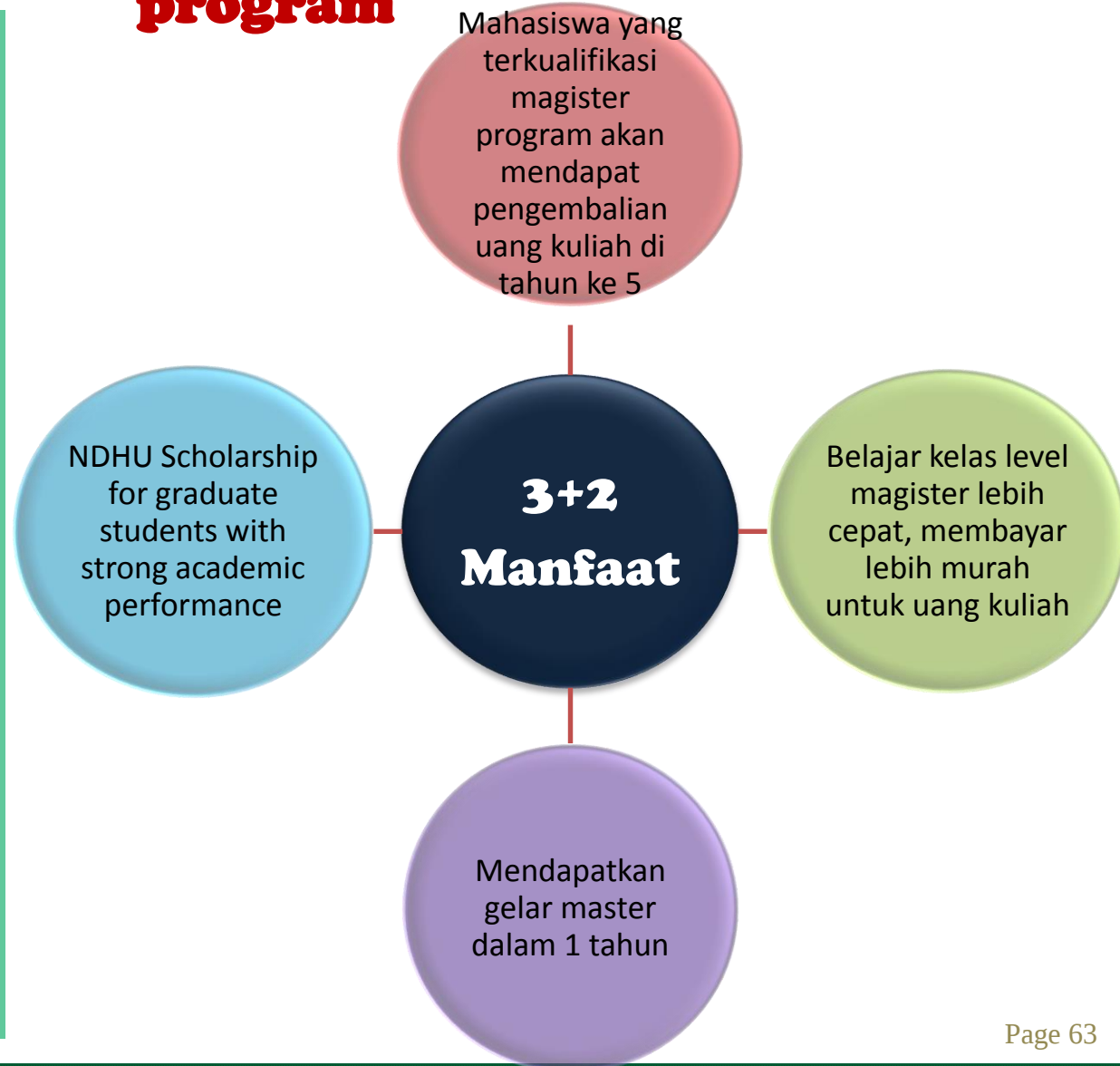


(上/下圖) 資工系大三專題展實況 學生將所設計的資工產品實體展現並接受客觀評分



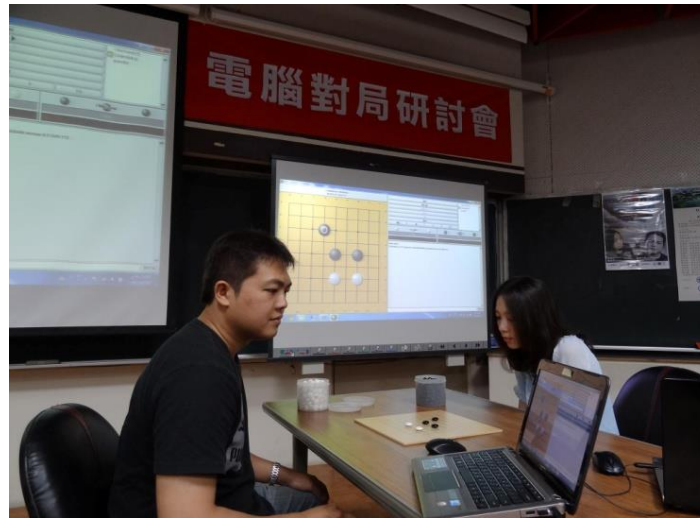
# NDHU CSIE— 5 Tahun untuk pilihan sarjana+magister program

- Mulai dari semester 2 tahun 3, mahasiswa dapat mengajukan permohonan izin untuk mempelajari program tingkat magister. Setelah disetujui, mahasiswa tersebut menjadi "pra-kualifikasi mahasiswa pascasarjana".
- Para mahasiswa pascasarjana pra-kualifikasi harus menerima gelar sarjana mereka pada atau sebelum 2 semester tahun ke-4 (atau semester 8 total), dan berpartisipasi pemeriksaan atau pilihan aplikasi untuk masuk program master. Setelah disetujui, mahasiswa tersebut menjadi mahasiswa pascasarjana CSIE.
- Mahasiswa membayar uang kuliah full pada sarjana program dan uang kuliah akan dikembalikan saat resmi menjadi mahasiswa magister

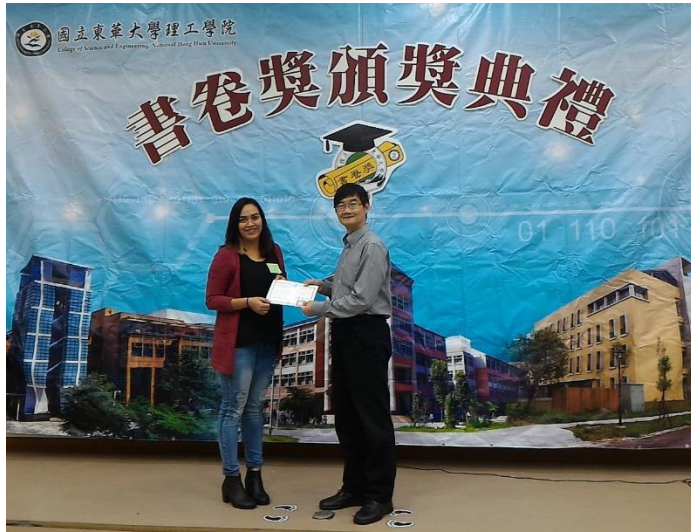


# Penghargaan besar yang diterima oleh mahasiswa

- 6 Mendali Emas dan 3 Mendali Perunggu dari ICGA, 2019.
- Artificial Intelligent Catur Software—**NDHU 7**, berhasil menantang otak manusia pada World Record, pada Juni, 30, 2013.
- Artificial Intelligent Catur Software—**Cold Milk**, menang sebagai Pemain Catur Professional (Level 5) pada bulan November 2012.



# Great Achievements by our students



# 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

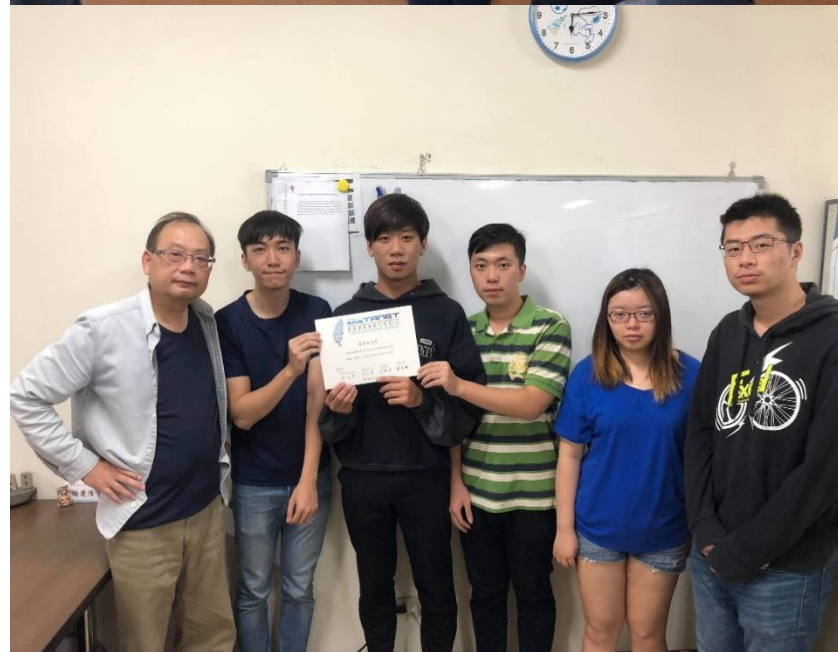
國立中央大學  
資電學院院長

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



# Prestasi Besar yang Dihasilkan Mahasiswa

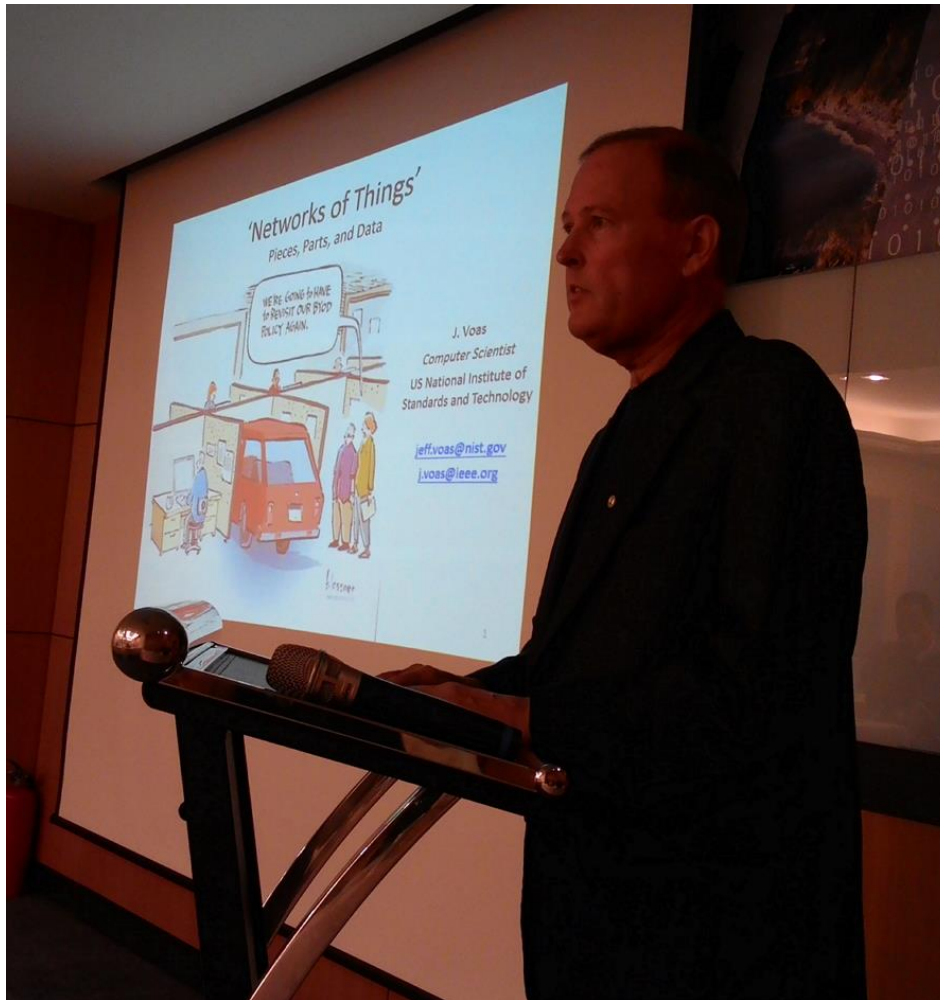


# Prestasi besar yang diperoleh mahasiswa

- Mahasiswa CSIE menang sebagai juara 1 pada 2016 ITSA Contest
- Sport Timing Sistem yang digunakan di East Coast Marathon didirikan oleh mahasiswa Ph.d/Master/sarjana program departemen CSIE contoh yang benar dari prototipe ke Produk!



# Antusias Belajar

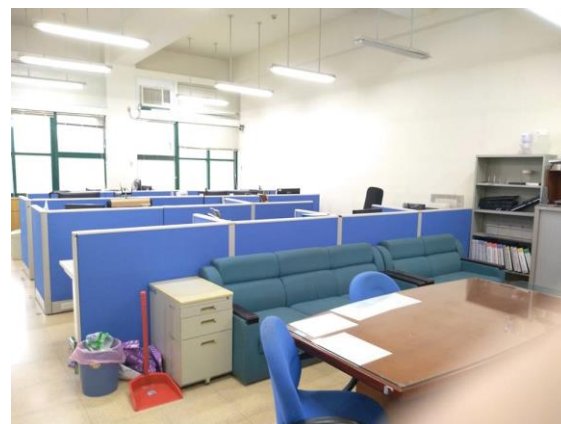


Pengantar Seminar

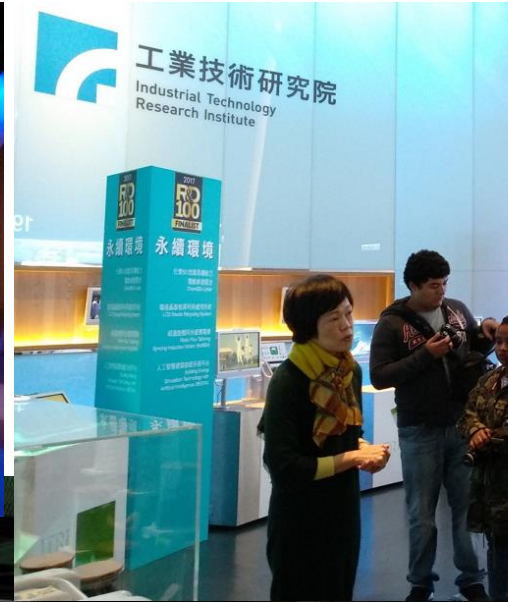
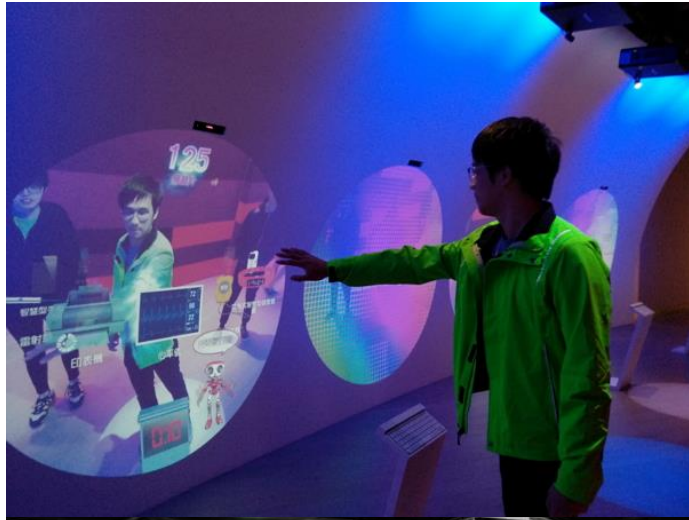
# Peralatan Penelitian Lanjutan

Ruang kelas full komputer, Studio Film , Maker Space

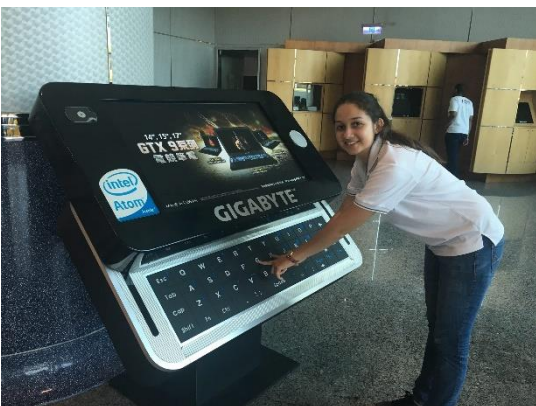
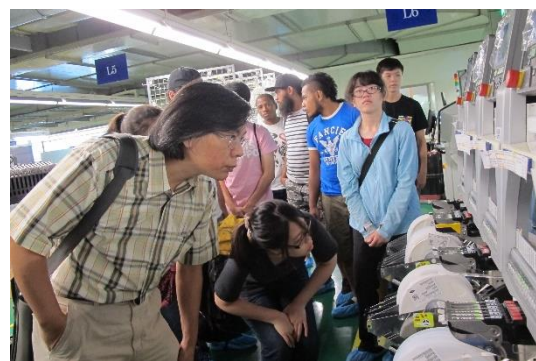




# NDHU CSIE , Kunjungan Industri



# NDHU CSIE , Kebersaam di luar kampus



# Lingkungan belajar seperti keluarga

- ✓ Tingkat Universitas—Kantor urusan internasional, Urusan akademik dan mahasiswa
- ✓ Jurusan—Dosen pembimbing CSIE , sebagai keluarga
- ✓ Staf—dapat dua bahasa dalam kantor jurusan
- ✓ Kelas—Interaksi teman sekelas
- ✓ Dukungan grup—Perkumpulan Mahasiswa, Team olahraga,



# NDHU CSIE , Seperti Keluarga



# NDHU CSIE , Seperti Keluarga



# NDHU CSIE , Seperti Keluarga



Page 77

# NDHU CSIE, Spirit of King !



# On-Campus Events w/ Int'l Students

## Int'l Cultural Festival & Fusion Cuisine Competition

2017.05.16



# On-Campus Events w/ Int'l Students

## Int'l Cultural Festival & Fusion Cuisine Competition

2018.05.17



# On-Campus Events w/ Int'l Students

## Int'l Cultural Night on 2018.11.22



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

## **Int'l Cultural Night on 2019.11.22**



# **Manfaat Belajar di NDHU CSIE**

- ✓ **Keajaiban Alam yang menakjubkan/Lingkungan Hidup yang nyaman**
- ✓ **Beasiswa NDHU untuk siswa yang berprestasi**
- ✓ **Akademik yang bagus dan Penelitian Lingkungan**
- ✓ **dilengkapi peralatan penelitian yang lengkap**
- ✓ **Interaksi yang dekat antara professor dan mahasiswa**
- ✓ **praktek skill dalam projek pada semua lab penelitian**
- ✓ **Kesempatan latihan praktikal dalam dan luar kampus di Pusat NDHU Inovasi dan perusahaan kerjasama.**
- ✓ **Kesempatan Magang di industri selama liburan musim panas**

# Menjadi bagian di tim terbaik ~ Bergabung dengan jurusan ilmu komputer, NDHU ~

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

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