

# Double Degree Program of Power Engineering with Brandenburgische Technische Universität Cottbus - Senftenberg

Prof. Huang, Yueh-Min, VP for International Affairs, NCKU



#### **National Cheng Kung University**





#### **National Cheng Kung University**

#### **Brief history**

- ■1931 Founded as "Tainan Technical College"
- ■1946 "Taiwan Provincial College of Engineering
- ■1956 "Taiwan Provincial Cheng Kung University"
- ■1971 Renamed as "National Cheng Kung University"







#### **NCKU**

■ Colleges: 9

■ Departments: 43

■ Institutes: 39

■ Degree programs: 8

■ BS programs: 44

■ MS programs: 101

Doctoral programs: 55



**■** Enrollment : 21,236 (2016 spring)

**■** Faculty: 1,343

■ Research faculty: 360

■ Alumni: over 130,000

■ Area: 187 hectares (461.9 acres)

■ Main campus: 83 hectares (205 acres)

■ An-Nan campus: 73 ha (180.3 acres)

■ Gueiren campus: 26 ha (64.2 acres)

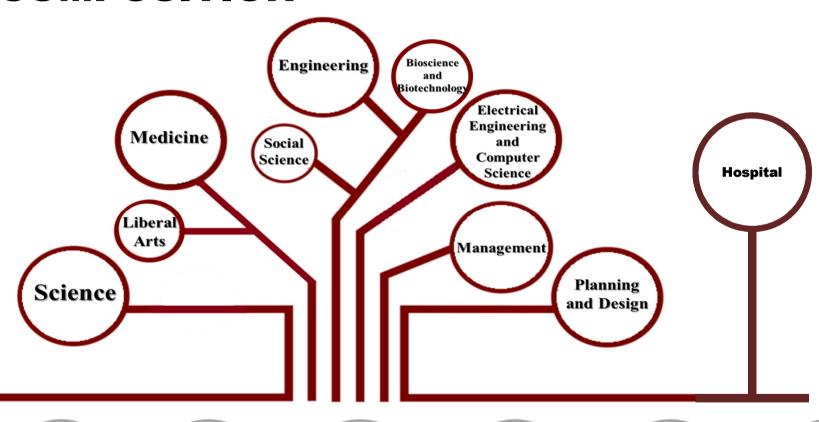
■ Dou-Liu campus: 5 ha (12.4 acres)

(100 ha=1 km<sup>2</sup>, 1 ha=2.47 acres)



#### **NCKU**

#### **COMPOSITION**



21,236 Students 1,343
Faculty
(Full-time)

360 Researchers **1,990** Staff

140,000 Alumni

3,596 Staff



#### **Major Regional Partners**

大洋洲 Oceania

澳洲 Australia 昆士蘭科技大學 Queensland University of Technology

歐洲 Europe

奧地利 Austria 因斯布魯克大學 Universität Innsbruck

德國 Germany 慕尼黑工業大學 Technische Universitat Munchen

荷蘭 Netherlands 萊登大學 Leiden University

捷克 Czech Republic 俄斯特拉發技術大學 VSB-Technical University of Ostrava

瑞典 Sweden 瑞典皇家理工學院 KTH Royal Institute of Technology

愛爾蘭 Ireland 都柏林大學 University College Dublin, National University of Ireland Dublin

波蘭 Poland 雅捷隆大學 Jagiellonian University

斯洛伐克 Slovakia 考門斯基大學 Comenius University in Bratislava

美洲 America

美國 U.S.A. 普渡大學 Purdue University

亞洲 Asia

中國 China 清華大學 Tsinghua University 日本 Japan 大阪大學 Osaka University

韓國 Korea 首爾大學 Seoul National University

新加坡 Singapore 新加坡大學 National University of Singapore



### **Top Double Degree Programs**

University	Degree Program Model	Fields
南伊利諾大學(SIUC) Southern Illinois University at Carbondale	Master 1+1	College of Management
蘭開斯特大學 The University of Lancaster	Master 1+1	College of Management
布蘭登堡工業大學(科特布斯) Brandenburg University of Technology Cottbus	Master 1+1	Power Engineering
里茲大學 The University of Leeds	Master 1+1	College of Management
凱斯西儲大學 Case Western Reserve University	Bachelor 2+2	One-year Master's programs offered at CWRS
諾曼地管理學院 Ecole de Management de Normandie	Master 1+1	College of Management
天普大學 Temple University	Bachelor 3+2 Master	One-year Master's program offered at Temple U
曼徹斯特大學 The University of Manchester	Master 1+1	College of Planning and Design
航太工程高等學院(IPSA) Institute of Polytechnique des Sciences Avancees (IPSA)	Bachelor 3+2 Master	Department of Aeronautics & Astronautics
里茲大學 The University of Leeds	Master 1+1	College of Planning and Design



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蘭開斯特大學 The University of Lancaster	Master 1+1	College of Management
布蘭登堡工業大學(科特布斯) Brandenburg University of Technology Cottbus	Master 1+1	Power Engineering
里茲大學 The University of Leeds	Master 1+1	College of Management
凱斯西儲大學 Case Western Reserve University	Bachelor 2+2	One-year Master's programs offered at CWRS
諾曼地管理學院 Ecole de Management de Normandie	Master 1+1	College of Management
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## Double Degree Program of Power Engineering, since 2009

Eligibility: Master's students in the field of powering engineering from BTU and NCKU

Year	Туре	Host	Receiving unit
1 <sup>st</sup> year	Course work	BTU	Master's program of Power Engineering
2 <sup>nd</sup> year	Course work & Thesis	NCKU	Master's program of the Department of Electrical Engineering OR the Department of Mechanical Engineering

#### Goal:

Awards of Master of Science from BTU AND Master of Science from NCKU in 2 years.







## Double Degree Program of Power Engineering, since 2009

**FLOW** 

#### From BTU to NCKU

Graduates		
3		
AY2012	AY2015	
2	1	
Currently Enrolled (AY2016)		
1		
Total		
4		
Electrical Engineering (at NCKU)		
Male	Female	
2	2	

### From NCKU to BTU STUDENT Graduates

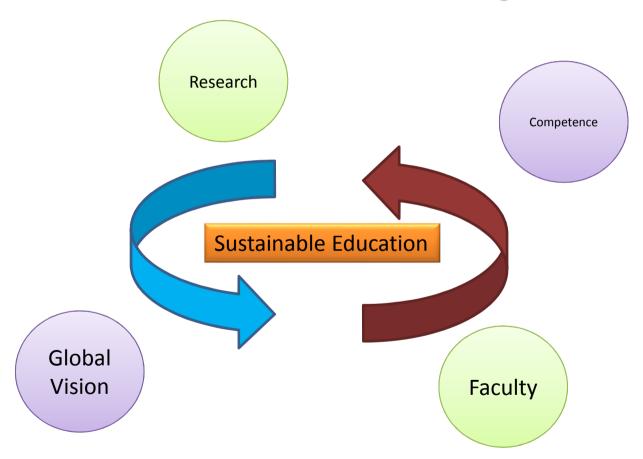
Graduates					
6					
	·		Dept.: Mechanical Engineering		al
2 AY2012	۸ν,	AY2014		AY2015	
1		3		2	
Currently	y Eni	olle	A) k	Y2016	•
		e Dep		_	
Mechar	Mechanical Engineering)				
		3			
Total					
		9			
	M	ALE			
		9			







#### **Dynamic Bilateral Student Exchange for Degrees**





### Dean Wei-Chou Hsu's remark College of Electrical Engineering & Computer Science



#### It is a good match!

This Double Degree Program has been initiated when I was the Chairperson of the Double E Department. I would like to thank Prof. Schwarz and the BTU for providing this very good double degree program to the two sides of NCKU and the BTU. The Power Engineering at BTU has high reputation in Germany. And also the Powering Engineering of double E at NCKU is the best in Taiwan. It is a good match.

### Dean Wei-Chou Hsu's remark College of Electrical Engineering & Computer Science

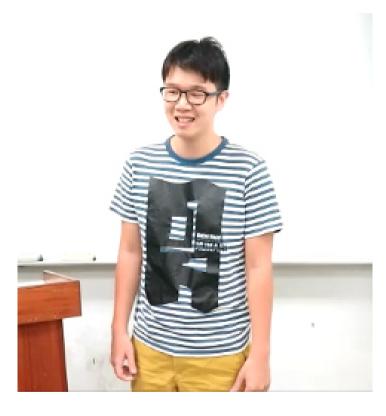


# OUR STUDENTS C.H. Lin (AY2014 at BTU) & Jan H. (currently at NCKU)





#### C.H. Lin (AY2014 at BTU)



#### Everything is possible!

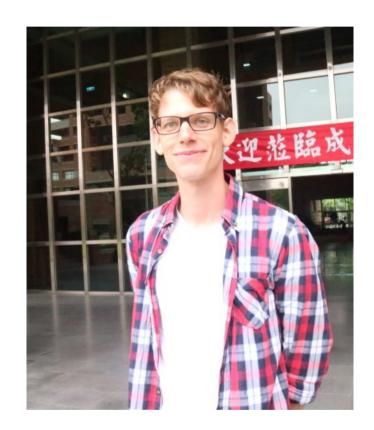
BTU is a very international university. They provide very practical courses and very flexible. The city of Cottbus is a very comfortable place to live. The air is very fresh. People there are willing to talk with you. You can meet all the international students there. BTU provides a very friendly environment for people to meet. It is a small town. Everything is possible. The best thing is that you can experience the culture and the teaching system in German, different from Taiwan. You take responsibility for yourself.

#### Jan H. (currently at NCKU)

#### This is a great chance for me!

The study environment is very good here, because everybody has a supervising professor, which gives us an opportunity to have a close relation to our supervisor and get like a lot of knowledge about a specific research topic.

I like the academic level of research here. Sometimes it is intense. It is a lot of workload, but I can really learn a lot. This is a great chance for me, personally also for my future career. I learn how to deal with the situations in a foreign country in different cultures. That teaches us a lot.



#### **Highly Recommended!**







Thank you!

#### NCKU's Research Areas Ranking Top 100

**Computer Science World ranking: 51** Citations/Papers: 1st in Taiwan **Engineering Clinical Medicine** 電腦科學 World ranking: 24 臨床醫學 Pharmacology/Toxicology Citations/Papers: 1st in Taiw 藥理學與毒理學 **Materials Science** Biology/BioChem World ranking: 45 材料科學 生物與學物化學 Citations/Papers: 1st in Taiwan Plant & Animal 植物與動物科學 **Physics** 物理 **Environment/Ecology** 環境與生態 **Chemistry General Bio** 化學 GeoSci 一般生物科學 地球科學 **Essential Science Indicators** (2004-2015)



#### **Partnership University**

University	Contract	Level
漢諾威工科大學 Leibniz Universität Hannover	Memorandum of Understanding for Academic Exchange	College
慕尼黑工業大學 Technische Universitaet München	Memorandum of Understanding & Student Exchange	University
美茵河畔法蘭克福-約翰-沃爾 夫岡-歌德大學 Goethe-Universität Frankfurt am Main	Memorandum of Understanding	University
丹斯泰工業大學 Technische Universität Darmstadt	Memorandum of Understanding & Exchange Agreement	University
阿亨工業大學 Rheinisch-Westfälische Technische Hochschule Aachen	Memorandum of Understanding	University



#### **Partnership of University**

University	Contract	Level
布蘭登堡工業大學 Brandenburg University of Technology Cottbus	Memorandum of Understanding & Exchange Agreement & Double Degree	University
海德堡大學 Ruprecht-Karls- Universität Heidelberg	Memorandum of Understanding &Exchange Agreement	College
杜賓根大學 Eberhard Karls Universität in Tübingen	Memorandum of Understanding &Exchange Agreement	University