

تجارب همکاری علمی دانشگاه صنعتی امیرکبیر با دانشگاه های چین

روح الله باقرزاده

رئیس پژوهشکده مواد و فناوری های پیشرفته در نساجی

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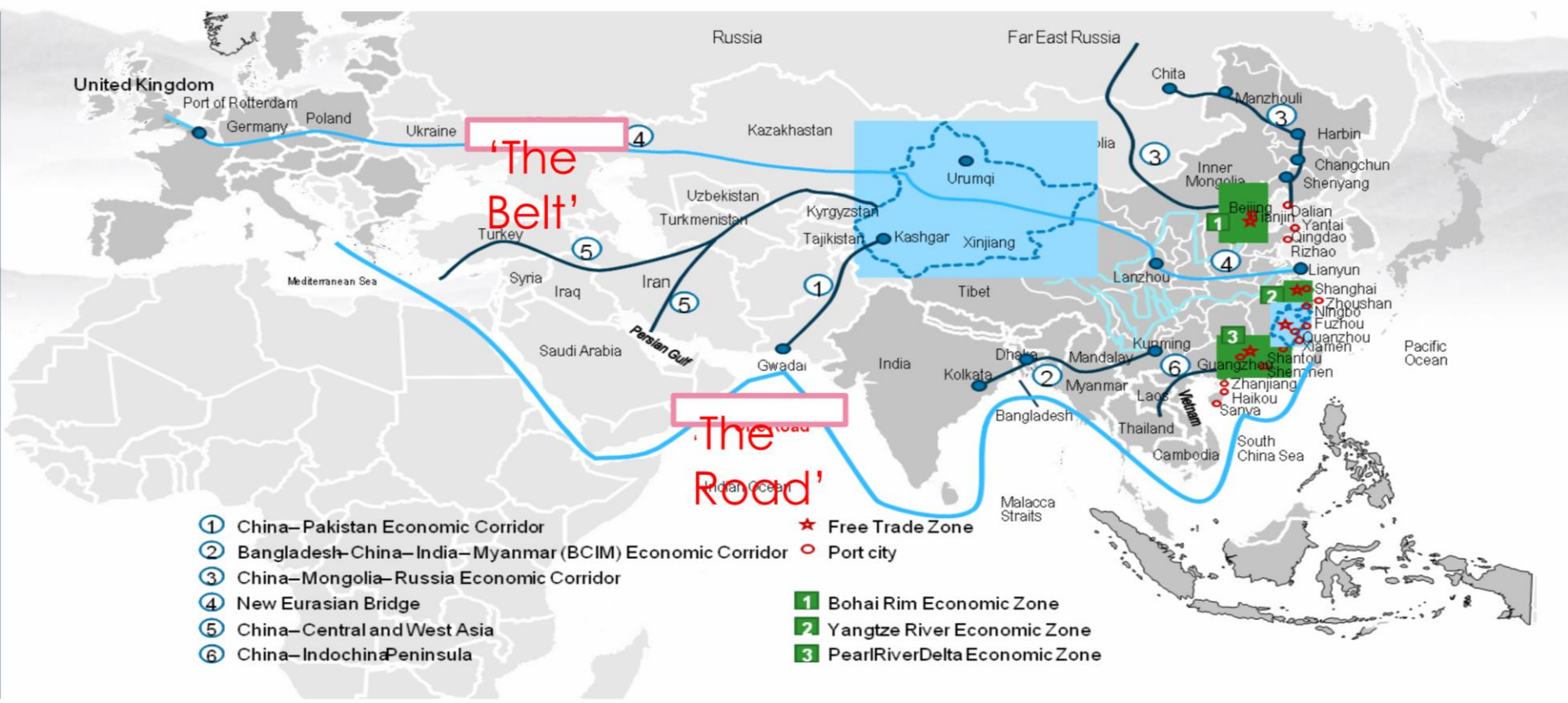
بخش اول: معرفی ظرفیت های برنامه

One Belt One Road (OBOR)

معرفی ظرفیت های برنامه One Belt One Road (OBOR)

Since the ancient silk routes were not for trade only, they boosted flow of knowledge as well. Therefore this first courageous step towards each other, can take us on a path leading to friendship, shared development, peace, harmony and a better future

October of 2013, The initiative accounts for an aggregate gross domestic product of \$21 trillion, or 29 percent of the world's GDP, and involves 65 countries with a total population of 4.4 billion.



Cooperation Priorities of B&R

- **Policy coordination**
- **Facilities connectivity**
- **Unimpeded trade**
- **Financial integration**
- **People-to-people bond**



Chinese president Xi Jinping meets with Prime Minister Najib Razak of Malaysia at the Boao State Guest House in Hainan province on March 27, 2015.



The inauguration of the Kazakhstan-Turkmenistan-Iran railway on Dec 4, 2014.



A foreign businessman purchases products for the 2014 FIFA World Cup at Yiwu International Trade City in Yiwu, Zhejiang province.



The signing ceremony of the memorandum of understanding on establishing the Asian Infrastructure Investment Bank in Beijing, 24 Oct 2014.



Mongolian women wearing traditional dresses at the opening press conference of the International Tourism Fair in Berlin, Germany in 2015.

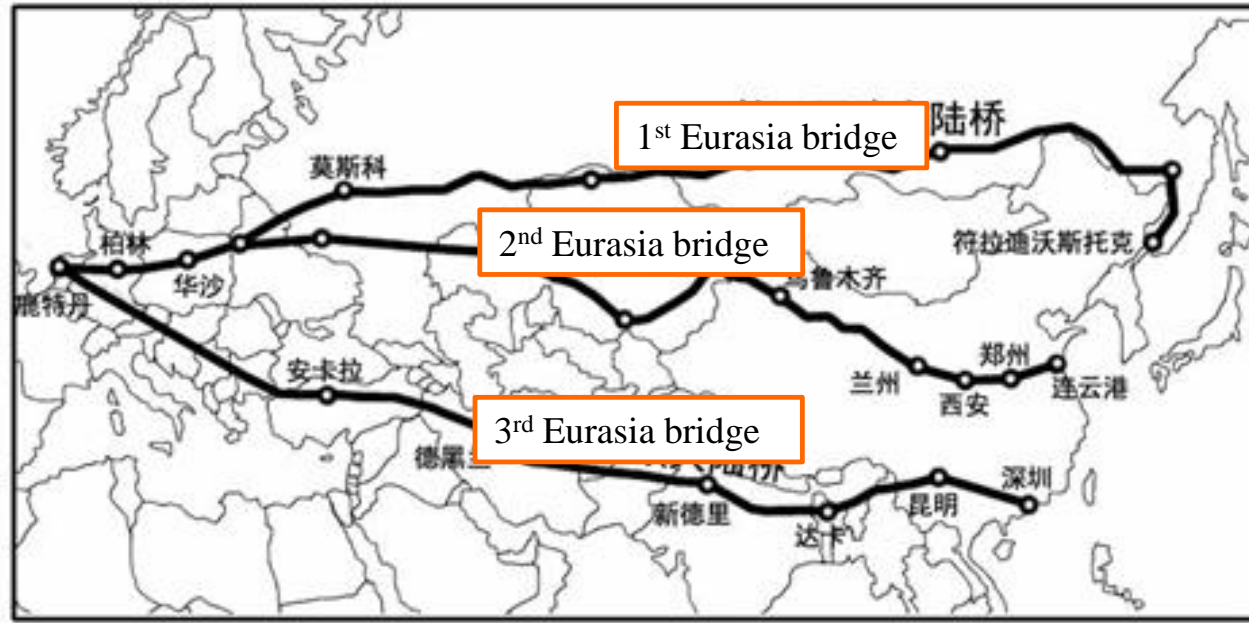
معرفی ظرفیت های برنامه (OBOR) One Belt One Road

China will invest \$62 billion in China-Pakistan Economic Corridor (CPEC) with huge strategic and economic benefit to both countries.

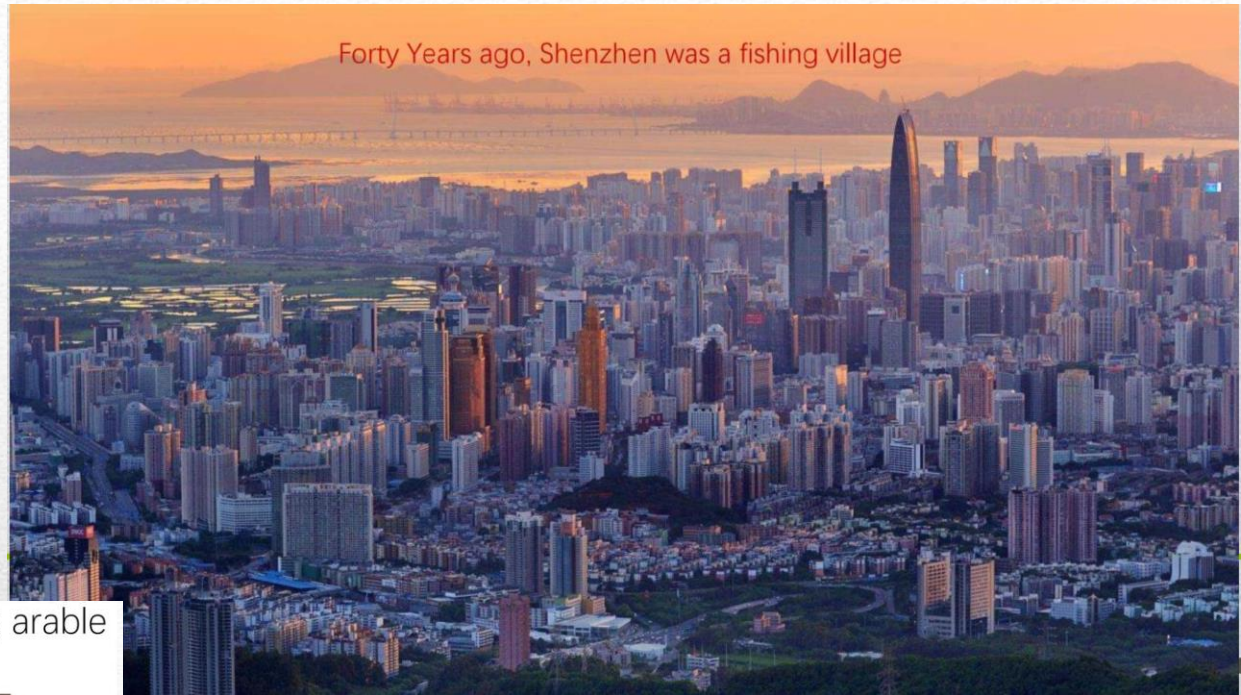


With the construction of China-Pakistan railroad and oil pipeline, the transportation of oil and goods will have an 85% reduction in mileage

معرفی ظرفیت های برنامه One Belt One Road (OBOR)



Three major trans-continental railroads will be or have been completed



Forty Years ago, Shenzhen was a fishing village

Village people singed a first dividing arable land to family base to production.



چهار دوره مهم در توسعه کشور چین

What China's Reform and Opening Policy and its Achievements

- (1) 1978 Reform and Open Door Policy
- (2) Jiang and Hu's Further Achievements
- (3) Xi's Quality Reform and Great Improvement



Deng Xiaoping
1904-1997
Return back from France as one of earlier overseas students, attended the Long March with Mao.

b. Deng's Inference Speech and Deepen Policy

南方讲话。摸着石头过河。
(Deng's Speech)
Crossing the river by feeling the stones.
No matter if it is a white cat or a black cat, a cat that can catch mouse is a good cat!



Jiang Zemin
1926-
"Three Represents",

- Party must always represent the development trend of China's **advanced productive forces**, the orientation of China's **advanced culture** and **the fundamental interests of the overwhelming majority of the Chinese people**, is the crystallization of the Party's collective wisdom and a guiding ideology the Party must follow for a long time to come, Jiang said in his report.



Hu Jintao
1942-

Scientific Outlook on Development

- The Scientific Outlook on Development means putting **people first** and aiming at **comprehensive, coordinated and sustainable development**.



Xi's Quality Reform and Great Improvement

The Silk Road Economic Belt and the 21st-Century Maritime Silk Road

معرفی ظرفیت های برنامه One Belt One Road (OBOR)

Opportunities for industries

Good news from B&R

Provide loans. China will provide loans to B&R countries for infrastructure

reduce tariff. China will reduce tariff for products from friendly B&R countries

Reduce dept. China will reduce or abate national debt for third world countries

Train professional. China will provide training opportunities and scholarships for students and professionals

Increase aid. China will provide financial aid to B&R countries

The belt and road initiative **Inclusive** and **sustainable** development

Top key points of strength of China:

- Excellent at Human resource
- First forex reservation in the World (3,307,943 million of \$)
- Large domestic market
- Good education system and reformed economy
- China strength in manufacturing (China has the complete lines of manufacturing so the government can control the rate of unemployment and country economy)
- Excellent Infrastructure capability (over 680 km of subways only in Shanghai, large scale bridge, high speed trains,..)

بخش دوم: وضعیت دانشگاه های چین

وضعیت دانشگاه های چین

Academic Ranking of World Universities 2020

 China 

Country Rank	Institution	World Rank
1	Tsinghua University	29
2	Peking University	49
3	Zhejiang University	58
4	Shanghai Jiao Tong University	63
5	University of Science and Technology of China	73
6	Fudan University	100
7-13	Central South University	101-150
7-13	Harbin Institute of Technology	101-150
7-13	Huazhong University of Science and Technology	101-150
7-13	Nanjing University	101-150
7-13	Southeast University	101-150
7-13	Sun Yat-sen University	101-150
7-13	Xi'an Jiaotong University	101-150
14-22	Beihang University	151-200
14-22	Jilin University	151-200

Shanghai Ranking, Academic Ranking of World Universities 2020

Top Chinese Universities

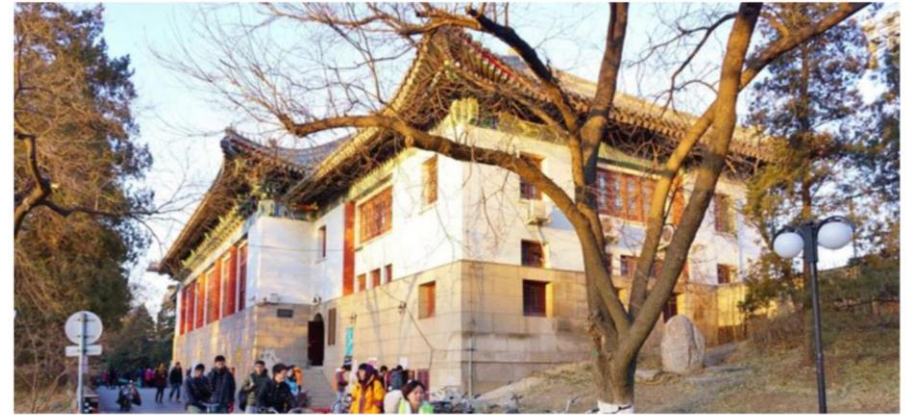
1. Tsinghua University



Staying in Beijing, this year's number one among the top universities in China is **Tsinghua University**, which was also ranked 17th (and first in China) in the QS World University Rankings® 2019. Since its founding in 1911, Tsinghua has educated some of the most prominent Chinese leaders in politics, business, academia, and culture, including two Nobel Prize winners. Following the motto of 'Self-Discipline and Social Commitment', the university is committed to the advancement and well-being of both the nation and the world. Like its rival, Peking University, Tsinghua is known for having one of the mainland's most picturesque campuses, with a mix of both traditional and Western styles, with the latter reflecting the American influence on its history.

Roohollah Bagherzadeh

2. Peking University



Peking University, located in Chinese capital **Beijing**, is mainland China's second highest-ranked institution and is also ranked 30th in the world in 2019. It earns the best scores for the employer and academic reputation indicators, as well as one of the highest scores in this list for the international student category. Founded in 1898 as the Imperial University of Peking, Peking University is the oldest university in China and is renowned for having one of the most beautiful university campuses on the mainland, with traditional Chinese architecture and gardens dating back to the Qing Dynasty.

Shanghai Ranking, Academic Ranking of World Universities 2020

Top Chinese Universities

3. Fudan University



Heading to **Shanghai** for the next in our look at the top universities in China, **Fudan University** is ranked third in mainland China and has consistently been ranked within the global top 50 of the world university rankings for the last three years. Fudan was established in 1905 as Fudan Public School, and merged with Shanghai Medical University in 2000. As well as being a C9 League university, Fudan is a member of Universitas 21, a consortium of research-intensive universities.

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4. University of Science and Technology of China



University of Science and Technology of China (USTC), a national research university located in the city of Hefei in eastern China, is ranked fourth in the mainland China ranking and 98th in the world in 2019. Established in 1958 (meaning it celebrated its 60th anniversary this year), USTC receives its best scores in the two indicators measuring research productivity and research impact (citations per faculty and citations per faculty member), and is regarded as China's 'Cradle of Scientific Elites'.

Shanghai Ranking, Academic Ranking of World Universities 2020

Top Chinese Universities

5. Zhejiang University



Located in the picturesque city of Hangzhou in the eastern Zhejiang province, **Zhejiang University** is ranked fifth among the top universities in China and was also placed 68th in the most recent World University Rankings. Zhejiang is made up of seven campuses, with most first and second-year undergraduates living at the Zijin'gang Campus, which is the largest single university campus in mainland China. Zhejiang's university library boasts a collection of more than seven million volumes, making it one of the largest academic libraries in the region.

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6. Shanghai Jiao Tong University



Shanghai Jiao Tong University (SJTU) is ranked sixth in the Mainland China University Rankings and joint 59th in the World University Rankings, and is another member of the C9 League to make this list. Established in 1896, SJTU has around 48,900 students enrolled, including 2,400 international students, and is particularly well-regarded for its engineering programs. As well as earning perfect scores for its employer and academic reputations, it achieves the strongest score in China for the papers per faculty indicator.

Shanghai Ranking, Academic Ranking of World Universities 2020

Top Chinese University

7. Nanjing University



Ranked seventh in mainland China and joint 122nd in the world, **Nanjing University** was founded in 1902 as the Sanjiang Normal School and gained its current name in 1950. It now has around 33,000 students and enjoys a high level of prestige, earning its best scores in the academic reputation and staff with PhD indicators. It's known for its stringent admission criteria, leading national media to call it the most selective university in mainland China.

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8. Sun Yat-sen University



Heading to the south of China, **Sun Yat-sen University**, located in Guangzhou in the Guangdong province, is eighth in the Mainland China University Rankings this year and was featured at joint 295th in the World University Rankings. It was ranked fifth on the mainland for the 'staff with PhD' indicator, and is known for having one of only three triple-accredited business schools in China. It's also the home of

بخش سوم:

تجربیات دانشگاه (پژوهشکده نساجی)

با DHU

تجربیات دانشگاه (بزمشکده نساجی) با DHU

۱- شرکت فعال در کنفرانس

The B&R Textile Universities Alliance in DHU in December 2018

World Textile University General Assembly (Dec, 2018)

- دانشگاه علوم و تکنولوژی سودان
- دانشگاه ملی مغولستان
- دانشگاه مد و تکنولوژی بنگلادش BGMEA University of Fashion & Technology (BUFT)
- دانشگاه پلی تکنیک مادرید اسپانیا
- دانشگاه کارولینای شمالی امریکا
- دانشگاه پلی تکنیک تیانجینگ (Tianjin)
- دانشگاه نساجی وهان (Wuhan Textile University)
- دانشگاه شینجیانگ (Xinjiang University)
- دانشگاه ملی پاکستان

تجربیات دانشگاه (پژوهشکده نساجی) با DHU

۲- استفاده از ظرفیتهای دانشگاه در تشکیل تیم های بین المللی - استمرار فعال در فعالیت

تجربیات دانشگاه (بزو هسکده نساجی) با DHU

۳- استفاده از همکار چینی در ارتباط با بالاترین سطح اجرایی دانشگاه



Amirkabir University of Technology
(Tehran Polytechnic)



MEMORANDUM OF UNDERSTANDING FOR ACADEMIC EXCHANGE AND COOPERATION
BETWEEN
AMIRKABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)
AND
DONGHUA UNIVERSITY, SHANGHAI

Amirkabir University of Technology (AUT) in Tehran and Donghua University in Shanghai, to develop an academic exchange and cooperation program in education and research, have agreed to the following:

1. Based on the principles of mutual benefit and respect for each other's independence, the two institutions will foster and promote:
 - a) Student and academic and administrative staff exchanges
 - b) Joint research activities
 - c) Exchanges of academic materials
2. In order to carry out the above-mentioned activities, a detailed plan must be agreed to upon consultation between the two institutions.
3. It is implicit that each and every activity undertaken under this agreement is approved by the appropriate officials at each institution and must fall within each institution's academic and fiscal constraints.
4. This agreement shall be effective on and after the date of its signing by the authorized representatives of the two institutions, and shall remain in force until either party wishes to terminate. In order to terminate, a one year written notice must be issued.
5. This agreement may be modified at any time after due consultation between the two institutions.

FOR Amirkabir University of Technology

Prof. S. Ahmad Motamedi

Chancellor

Signature

Date



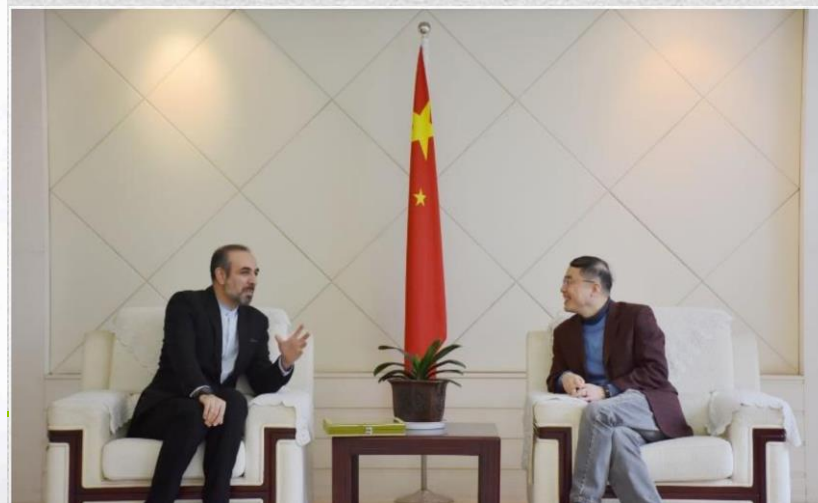
FOR DONGHUA UNIVERSITY

Prof. JIANG Changjun

Chancellor

Signature

Date



9/29/2020 11:45 AM

تجربیات دانشگاه (پژوهشکده نساجی) با DHU

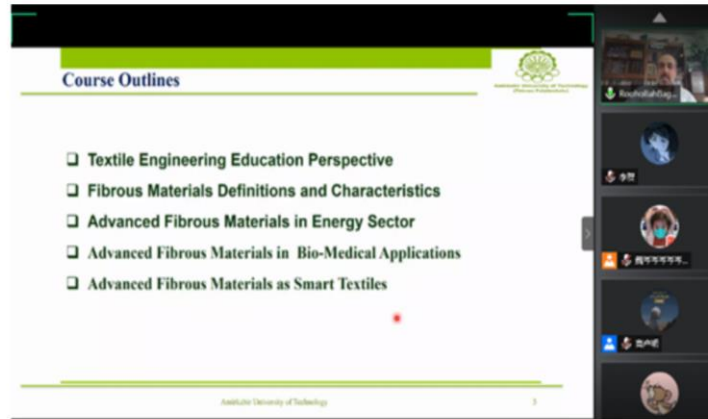
۴- الف) دعوت از همکار تاثیر گذار چینی به دانشگاه – برقراری ارتباط با بدنه مدیریت دانشگاه

۴- ب) دعوت از همکار تاثیر گذار چینی به دانشگاه – ایجاد تصویر کامل از ظرفیت دانشگاه و ایران (علمی و فرهنگی)

تجربیات دانشگاه (پژوهشکده نساجی) با DHU

۵- همکاری در برنامه های آموزشی-مدرسه تابستانی، دوره آموزشی، برگزاری کارگاه و...

Summer school 2019



Course Outlines

- ❑ Textile Engineering Education Perspective
- ❑ Fibrous Materials Definitions and Characteristics
- ❑ Advanced Fibrous Materials in Energy Sector
- ❑ Advanced Fibrous Materials in Bio-Medical Applications
- ❑ Advanced Fibrous Materials as Smart Textiles

Amirkabir University of Technology

Prof. Roohollah Bagherzadeh

Summer school 2020



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邮编: 201620 Email: wrj@shu.edu.cn

تجربیات دانشگاه (پژوهشکده نساجی) با DHU

۶- پیگیری مفاد MOU و تنظیم قرارداد اجرای مشترک --- آموزش + پروژه



College of Environmental Science & Engineering, Donghua University

Environmental Engineering has passed the Washington Accord Engineering Education Certification since 2010.

Introduction

Donghua University is one of the first universities that establishes the disciplines of Environmental Sciences and Civil Engineering. College of Environmental Science and Engineering (CESE) now comprises Department of Environmental Science, Department of Environmental Engineering and Department of HVAC (Heating, Ventilating and Air Conditioning). CESE is the vice director unit of China Dyeing and Printing Industry Association and owns the Center of State Environmental Protection Textile Industrial Pollution Control Engineering Technology.



International Cooperation

International Cooperation:

University of Michigan, Purdue University, University of Mississippi, California State University, Mid Sweden University, Université Paris VI, McGill University, Utsunomiya University, The Royal Institute of Technology, Chalmers University of Technology, De Montfort University, University of Nottingham, Queen's University, University of South Australia, University of Birmingham.

✓ تعریف بورس بین الملل برای ۶ دانشجوی DHU برای شرکت در دوره بین الملل دانشگاه

✓ دوره کارشناسی مشترک School of Environmental Sci. & Eng. با دانشکده های نساجی و عمران

(بورس ۵ دانشجو امیرکبیر برای دو سال دوم کارشناسی + ۱۸۰۰۰ RMB برای هر دانشجو)

تجربیات دانشگاه (پژوهشکده نساجی) با DHU

۷- دریافت فاند با کمک شبکه ایجاد----- دانشجوی + فرصت مطالعاتی- پروژه

✓ Shanghai Belt & Road Young Scientist Program (☒)

✓ تشکیل کنسرسیوم با همکاران اروپایی برای تعریف پروژه (☒)

✓ اجرای دوره بین المللی مشترک فرانسه + امیرکبیر + چین (☒ ☐)

✓ اقدام برای NSFC (☐)

✓

How to start collaboration

- Start with **People-to-People** and then find the right **official**
- Joint supervision and publication
- Joint teaching program- be active (Summer school, exchange student, joint degree,..)
- Find the right person in your field- **STICK** to them if she/he is as **Academician** (in China is a top honor and title granted only to the nation's top scientists and engineers) but very difficult) and **OBOR** (Cultural exchange student (for sending your students), **International Deputy** (for apply fund and cooperation))
- Find the right funding agency and invite them (H2025,DAAD,...)
- Forming a consortium for your research (**Networking**)
- applying for research grants (The National Natural Science Foundation of China (**NSFC**) + local government scholarship, research fund, **OBOR** funds).

جمع بندی

- ارتباط با دانشگاه های تراز اول بسیار سخت و یا شاید خیلی دیر شده باشد
- استفاده از ظرفیت OBOR برای شروع
- استفاده از ظرفیت کمیته های دانشجویی ایرانی دانشگاه مورد نظر (سفیران دانشگاهی)
- تفاهم نامه همکاری در بالاترین سطح دو دانشگاه
- راه اندازی بخش فرهنگی – آموزش زبان مشترک
- سرعت عمل در پاسخگویی و جدی بودن در فعالیت و استمرار
- اولویت بندی در فعالیت شخصی (دانشجوی مشترک، تدریس و یا دوره مشترک، فرصت مطالعاتی پروژه تحقیقاتی مشترک و...)
- تعمیم همکاری به سایر بخش های دانشگاهی

از توجه شما متشکرم

