



UPC SUMMER PROGRAMME 2024

Inspirational programme for those who
love learning, research, and new ideas.





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WELCOME



Prof. Fang Huang

Dean of International Education College

“This summer UPC is proud to bring together enthusiastic and intellectually curious students from across the world to study new areas of knowledge and explore different ideas and ways of thinking.

We offer an exciting range of courses, all taught in English in small classes by experienced academics and experts from around the world. It is an intense and rewarding way to learn, highly effective at developing the use of critical reasoning and logical argument. You will improve your skills of analysis and gain an excellent foundation for future academic and career success.

Our beautiful college campus in Qingdao will be your home for the duration of the programme. We have a green, smart and multicultural campus where you find the finest academic resources and most advanced learning and research

facilities, all open to faculty and students. From a city walk to a Chinese Tai Chi performance, from Chinese calligraphy practice to a tea art show, our social and cultural activities will give you an authentic taste of the unique student experience in China, making friends and having fun as part of a diverse international cohort.

In this prospectus you will find more information about our range of courses, from Industry 4.0, Marine Robot, to Futurist Vehicle Technology. In every single one you can dive deep into topics of special interest with the personalized attention of expert academics, study among like-minded students from across the world, and gain an edge for your academic and professional future. We look forward to welcoming you to UPC!”



ABOUT

China University of Petroleum (East China), abbreviated as UPC, is a national key university directly under the administration of the Ministry of Education and a member of the “211 Project Universities” and “985 Project Innovation Platform Universities”.

It is home to 1000-plus international students from around 70 countries. Annually, UPC receives 500-plus visits by international academics for teaching, academic exchanges and research cooperation. We do everything possible to ensure international faculty and students feel welcomed into the UPC community. They are cherished as part of our global community.

UPC campus is located in Qingdao city, a well-known international tourist and overseas study destination. The weather here is quite agreeable, with moderate temperature and distinct four seasons. Qingdao ranks 13th in terms of GDP out of China’s 600-plus cities. It has economic and trade ties with over 200 countries and regions. People living in Qingdao enjoy beautiful scenery, diverse exotic building styles, convenient transport, and vigorous international communication.





Cultural Activities




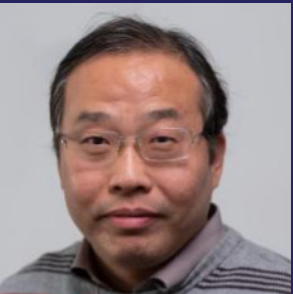


Cultural Activities







COURSES

Course Lecturer	Course Name	Course Outline
 <p data-bbox="94 894 407 1003">Prof. Francesco Maurelli Constructor University German</p>	<p data-bbox="435 478 667 512">Marine Robotics</p>	<p data-bbox="708 478 1550 1052">Marine robotics currently plays a key role in the exploitation of marine resources (offshore), conservation of marine environments (environment assessment) and security applications (e.g. harbour protection). The European Commission has estimated that the economic impact of the “blue” economy, which considers all activities linked to the sea, is worth more than 400 billions € annually, with more than 150 billions € in activities directly related to marine activities. This course presents the typical environmental constraints, technical solutions and current trends. Topics covered by the course include ROV (Remotely Operated Vehicles) and AUV (Autonomous Underwater Vehicles) operations, underwater acoustic, underwater sensing, navigation, communication, multi-vehicle cooperation.</p>
 <p data-bbox="86 1600 407 1709">Dr. Yilei Zhang University of Canterbury New Zealand</p>	<p data-bbox="435 1144 646 1304">Industry 4.0: Intelligent Design and Manufacturing</p>	<p data-bbox="708 1144 1550 1843">This intensive summer course delves into the principles of Industry 4.0, focusing on the integration of artificial intelligence (AI) in design and manufacturing processes. It covers the fundamentals of AI, including Natural Language Processing (NLP), Large Language Models (LLMs), and deep learning, with a strong emphasis on their applications in intelligent design, additive manufacturing, and predictive maintenance. The course focuses on advanced applications in intelligent design and manufacturing. Students will get familiar with both theories and industrial methodology/platforms of Industry 4.0 by working both individually and in groups. Hands-on experience will also be gained through labs and course projects. Particularly, students will learn how to identify an industrial problem, implement Industry 4.0 technologies, develop intelligent design and manufacturing solutions, build prototypes using industrial methodology/platforms, and conduct performance analysis.</p>

*All courses are offered to students, domestic or overseas, for free. International students live in international students' apartment on campus free of charge.



COURSES

Course Lecturer	Course Name	Course Outline
 <p data-bbox="121 1010 386 1125">Kun Liang University of Sussex UK</p>	<p data-bbox="435 478 607 680">Engineering and Society, and Future Automotive Technology</p>	<p data-bbox="711 478 1550 1255">Engineering is one of the key influences that shapes our society. Engineers don't just work with machines, designs and electronics, they use maths and science to provide innovation and inventions that shape our society and improve the way we live and work. This means that engineers have a responsibility and also a great opportunity to ensure that they have a positive influence in society. This first half of this short course will delve into the multifaceted role of engineering in society (technological, economical, ethical, environmental etc.) and provide students an insight into how they can make a difference and contribute to society being an engineer. In the second half of this course, we will cover different types of propulsion systems for automobiles, from fossil fuels to hydrogen fuel and from internal combustion engines to lithium-ion batteries. We will address key issues with both combustion engine and electric vehicles in terms of configuration, efficiency, cost, emissions and control. We will also discover advanced technologies in automotive propulsion systems for high efficiency and low emissions.</p>
 <p data-bbox="99 1661 399 1770">Wang Xinbo China University of Petroleum (East China)</p>	<p data-bbox="435 1360 639 1516">Cultural Study of Major Oil Producing Countries</p>	<p data-bbox="711 1360 1550 1726">Social and Cultural Study of Major Oil Producing Countries provide students with updated information systematically, integrated with knowledge of petroleum. It will enhance students' absorption of knowledge in this field through the introduction of cultural and social points of the major oil producing countries, so as to develop their critical thinking. It will also foster students' understanding of petroleum industry through a series of listening and speaking materials in relevant fields.</p>

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PROGRAM AT A GLANCE

Day 1 (1 July)	Arrival Day
Arrive at Qingdao Jiaodong International airport, airport meet and greet and transfer to housing.	
Program leaders, ambassadors and buddies will welcome you at the airport and lodging.	
Meals in the cafeteria.	
Day 2 (2 July)	Official welcome and opening ceremonies. Academic courses
7:00 am	Breakfast in the cafeteria
8:00 am	UPC official welcome and opening ceremony.
10:00 am	Campus tour.
11:50 am	Lunch in the cafeteria.
2:00 pm	Academic courses.
5:30 pm	Dinner.
7:00 pm	Sport activity, tour of the UPC gymnasium
9:00 pm	Reminder of next day's plan
Day 3 -- Day 11 (3-11 July)	Academic courses and cultural activities
7:00 am	Breakfast in the cafeteria
8:00-11:30 am	Academic courses
11:50 am	Lunch in the cafeteria.
2:00 pm	Cultural activities (city tour, Chinese Taichi performance, tea show, Chinese calligraphy practice, Chinese paper cutting, traditional Chinese medicine)
Around 6:00 pm	Dinner.
7:00 pm	Sport activity.
9:00 pm	Reminder of next day's plan
Day 12 (12 July)	Award and closing ceremony
7:00 am	Breakfast in the cafeteria
8:30 am	Photo and Video competition winner announced, awarded.
10:30 am	Depart for airport

*All arrangements are subject to slight changes when necessary.



OTHER INFORMATION

- **Fees**

All academic courses and cultural activities are offered to students, domestic or overseas, for free. All summer camp students live in international students' apartment on campus free of charge, from July 1-12. Students pay for the meals out of their own pocket.

- **Housing**

All students will be allocated a standard double room with shared bathrooms. All linen is provided. Laundry facilities are complimentary (detergent provided). Wifi access is complimentary.

- **Cafeteria hours**

Breakfast 6:45am-9:00am

Lunch 11:00am- 1:00pm

Dinner 5:00pm-7:00pm

- **Transportation**

Airport meet and greet transfer, and private buses to take the group to offsite activities are available for the entire program.

Personal travel requirements can be by public bus, taxi or subway.

- **Medical**

There is UPC Health Center on campus. Student support will advise you on any medical issues and where you can receive professional help. Basic first aid facilities are available at the campus accommodation. Group leaders will ensure first aid bags are taken on all field study visits.



HOW TO APPLY

Once you have selected the course(s), you are ready to begin your application.

Please follow the instructions below.

- Fill in an online application form before May 30. Here is the link:
<https://f.wps.cn/g/atm6ihCJ/>
- The International Office at UPC will contact (E-mail: amy@upc.edu.cn, Wechat: 15092256551) and let you know whether your application has been successful, usually within three days. If you are accepted onto the programme, we will send an Enrolment Agreement for you to sign and let you know that your place on the programme is confirmed.





**Join us this summer to interact with great minds
and experience the best that UPC has to offer.**

