Beijing Institute of Technology International Summer Program 'Cloud Lessons'

Spend Your Summer at BIT

INTRODUCTION

In 2021, Beijing Institute of Technology successfully held "cloud lessons" for winter and summer programs, with more than 350 online students. To help you stay connected and broaden your horizons while safely staying at home, BIT Summer Session provides high-achieving and ambitious students a transformative educational experience at a top university in China. Beijing Institute of Technology will offer two programs Green Transportation & Intelligent Manufacturing and Chinese Language and Multicultural Practice in 2022. **Green Transportation & Intelligent Manufacturing course** is designed for students with engineering background. By participating in the live broadcast and interacting with advanced technical experts, you will learn about cutting edge engineering techniques. **Chinese language and culture course** is designed for all who are interested in the Chinese way of life. You will interact with lecturers and panel members to share and compare Chinese culture with yours. In pursuit of a concrete goal or simply enjoy learning, you can use your time wisely this summer to build some new skills and gain fresh perspectives.

Teaching method: Live-streaming
Learning platform: Tencent meeting / VooV meeting
Length and Credits: 2 weeks (48 hours); 3 credits

Course Schedules

Program 1 Green Transportation & Intelligent Manufacturing
Duration:
Session 1:July 11 – July 22, 2022 (15:30-18:30p.m. Beijing time)

Program 1 Timetable

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Opening Ceremony Hydrogen Energy and Hydrogen Safety	Positioning of Autonomous Vehicle	Driving Without Drivers-How to Make Cars Intelligent	How to Achieve Energy Shift in Time and Space?	When We Enter The World Of Ultrafast And Ultrasmall	
Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
Watching and Manipulating the Rearrangement of Atoms	Energy Research Is Hot and Cool	**Cultural Comparison:** Traditional Chinese Etiquette	**Cultural Comparison:** Online Visit The Forbidden City	**Cultural Comparison:** One Day in Beijing	Closing Ceremony

Note: The schedule is for reference only

Learning Outcomes

★ Command the basics of hydrogen safety, including hydrogen leakage and diffusion, hydrogen fire and explosion, hydrogen compatibility with materials, hydrogen risk assessment, hydrogen safety instruments and standards, as well as the international and domestic status and development direction of hydrogen safety.

★ Receive an insight into the rationale for the positioning of autonomous vehicle from three perspectives: positioning via satellites, positioning in GNSS-denied environments, and cooperative positioning for connected intelligent vehicles

★ Know the basic functions of autonomous vehicles and fundamental self-driving technologies in terms of sensing, environmental perception, decision making, path planning and motion control will be given.

★ Know the history of energy storage, the current status of energy storage technology (pumped storage, electrochemical energy storage technology, heat storage), research hotspots in energy storage field, and economic benefit analysis of energy storage.

★ Commence with an overview of the main source of carbon emissions, energy production, followed by discussions of different scenarios for an energy mix.

★ Introduce the world of ultrafast and ultrasmall, so that students can visualize these processes in space and in time.

★ Understand state-of-the-art techniques, both spectroscopies and microscopies, that enables us to "visualize" and control the rearrangement of atoms, as well as its implications and applications in the effort to achieve a carbon neutral society.

★ Hone your professional skill-set with a course focusing on Green Transportation & Intelligent Manufacturing.

Program 2 BIT Chinese Language and Multicultural Practice
Duration:
Session 1: June 20 – July 3, 2022 (15:30-18:30p.m. Beijing time)
Session 2: August 15- August 26, 2022(15:30-18:30p.m. Beijing time)

Program 2 Timetable

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Opening Ceremony	Communicative Chinese: Let me introduce	Communicative Chinese: What time is it now?	Cultural Comparison: Online Visit The Forbidden City	Communicative Chinese: How much is this dress ?		
Ice break self-introduction	Cultural Comparison: Traditional Chinese Etiquette	Chinese Culture Exhibition: Chinese Knot	Communicative Chinese: How to ask the route?	Chinese Culture Exhibition: Experience of study in BIT		

Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
Cultural Sharing: Introduce the Traditional Etiquette and Taboos of Your Country	Cultural Sharing: Chinese and Foreign Greetings	Cultural Sharing: Introduce your country's historical sites	Cultural Sharing: Chinese business card in My eye	Cultural Comparison: One Day in Beijing		
Communicative Chinese: Happy birthday to you!	Communicative Chinese: I'd like to have a Peking duck	Communicative Chinese: What's the weather like today?	Communicative Chinese: My hobby is traveling	Closing Ceremony		

*Note: The schedule is for reference only

Learning Outcomes:

★ Explore a new field or topic for your own enrichment and focus intensely on **Chinese language and culture.**

★ Learn about different cultures, traditional etiquette and taboos, ways of greeting and precautions, and to make reasonable rules across cultural boundaries.

★ Make you aware of the opportunities, potentials and possible problems of cross-cultural interaction in every-day international communication.

★ Have a better understanding and critical reflection on the concepts of "cultural dimensions"

★ Improve your cultural awareness, recognition of misunderstanding and synergy potentials, ability to conduct multilingual negotiations and empathy.

★ Connect with a global community of students and professionals

★ Develop your global leadership skills

★ Experience Beijing virtually at its best: in the summer!

★ Foster a cultural experience from a holistic perspective

★ Experience the energy of the modern China through a diverse co-curricular program

★ Develop strong organizational skills for your future academic research and career

★ Expand your skills and sparking intellectual curiosity

Application Information

1.Program fee: free for students from BIT partner universities; CNY 2,000 for others.

2. Application Deadline: 16 June 2022

3. Application website: apply.isc.bit.edu.cn

4. Qualification

(1) Green Transportation & Intelligent Manufacturing:

★ Non-Chinese citizen.

★ Student who has an interest or previous knowledge in intelligent engineering is preferred.

★ Students except for freshman.

★ Chinese proficiency is not required.

(2) Chinese Language and Culture：

★ Non-Chinese citizen.

★ Chinese proficiency is not required.

Application Procedure: Register at apply.isc.bit.edu.cn → Create your account and log in → Choose 'Short-term Programs' → Choose 'Short-term Programs (online courses)' → 'Apply'
→ Choose 'Intelligent Manufacturing Engineering (only available from 11 Jul to 22 Jul, 2022)-Choose 'Green Transportation & Intelligent Manufacturing'
/ → Choose 'Chinese Language program' -Choose '2022 Chinese Language and Multicultural Practice'
→ Fill your personal information and upload the required documents → Click 'Submit' and 'OK' to complete your application

Required Documents:

1. ID photo with white background

2. Photocopy of Passport front page

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