

# **Introduction of SEU International Summer School Program**

## **Theme**

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**International Summer School of Frontiers in Civil Engineering Infrastructure**

## **Session A**

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**Frontiers in Research: Seminar Series on Civil Engineering – State of the Art**

The research seminars cover a wide range of topics in the field of civil engineering including structural, disaster prevention, geotechnical engineering, bridge and tunnel, engineering management and mechanics. Top researchers in the world will be invited to present the cutting-edge technologies, novel concepts and ideas. The students will have opportunities to learn and closely discuss with leading scholars and engineers in their area.

## **Session B**

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**Frontiers in Industry: The course on intelligent construction and operation of key infrastructure**

The purpose of this course is to enable students of civil engineering to systematically learn and understand the current intelligent construction, operation and maintenance technology. From this course, students can master the concepts of intelligent sensor, health monitoring, organization evaluation, and preventive maintenance management, etc. They will also understand the intimate contact and integration application of modern civil engineering structure and advanced information technology from the perspective of interdisciplinary integration. The aim is to broaden the knowledge of civil engineering students and nurture comprehensive applied talents who can adapt to the modern construction. In the class, we will apply multimedia teaching means combined with teaching courseware to fully motivate students and improve the quality of teaching. Meanwhile, with lectures and discussions, we will help students develop the ability of analysis, self-study, expression and innovation. Summer school is the international frontier lecture part of the course.

## **Session C**

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**Frontiers in Market: Exploring the Transformation and Upgrading of the Construction field in the Era of Digital Economy**

Under the background of new infrastructure construction, the overall social and digital economy develop at a high speed, the technology and services of each link of the real estate industry chain will innovate in multiple dimensions, and the digital transformation of the real estate industry will accelerate. The new infrastructure is driving the high-quality construction of real estate and injecting new impetus into the real estate economy. The course will be taught by the professors from Department of Building and Real Estate (BRE), Hongkong Polytechnic University. The students will acquire the following by attending this course: key factors that influence the value of real estate, how those influences unfold, principles and practices in the real estate market, and especially skills and knowledge required in the areas of real estate and investment. This course also includes other interesting topics such as state-of-art research findings and trends of the real estate market in different countries or regions.

### Schedule (Draft)

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July 5 - August 8

### Number of Participants

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30 international students

### Application Requirements

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Open to students enrolled at civil engineering, engineering management

Applicants should be 3rd year undergraduate students

Non-native English speakers should have TOEFL score of 80 or above, IELTS score of 6 or above (or equivalent)

### Application Deadline

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June 30

### Host & Organizer

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Southeast University, China

### Contact Information

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