东南大学 2021 年国际暑期学校项目介绍

Introduction of SEU International Summer School Program

项目主题（Theme）

土木工程基础设施建设前沿国际暑期学校

International Summer School of Frontiers in Civil Engineering Infrastructure

项目概述（Overview）

暑期项目 A（Session A）

土木工程研究前沿：院士知名专家最新研究讲座
Frontiers in Research: Seminar Series on Civil Engineering – State of the Art

国际暑期学校项目拟结合土木工程院士知名专家系列讲座，在土木工程国际前沿领域开展学术素养、科研方法等方面的讲座，主题涵盖土木工程主干学科包括结构工程、防灾工程、岩土工程、桥梁与隧道工程、工程管理以及工程力学。项目采取专家系列讲座与国家重大工程参观相结合、国内与国外专家共同参与、现场讲座与国际网络课程相融合等多种形式。通过系列讲座活动，对参加暑期学校的学生在专业知识、学术视野、科研方法、素质拓展和学术思想等方面进行训练提高。

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.

暑期项目 B（Session B）

土木工程行业前沿：重大基础设施智慧建造与运维课程
Frontiers in Industry: The course on intelligent construction and operation of key infrastructure

本课程的教学目的在于使土木工程专业学生能对当前的智慧建造与运维技术有系统性的学习与认知。掌握智能传感、健康监测、机构评估、预防性维护管理

等概念知识，从多学科交叉融合的角度了解当代土木工程结构与先进信息技术的亲密接触与融合应用。本课程旨在拓宽土木工程专业学生的知识面，培养适应现代化建设的综合应用型人才。在课程教学中，应用多媒体教学手段，结合教学课件的制作，充分调动学员学习积极性，提高教学质量；结合讲座、讨论等形式引导学生培养分析、自学、表达和创新能力。其中暑期学校为课程的国际前沿讲座部分教学。

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.

暑期项目 C（Session C)

土木工程市场前沿：数字经济时代建筑业转型升级探索课程

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

新基建背景下，社会整体经济和数字经济高速发展，房地产产业链各环节的技术、服务等将进行多维度的创新，房产行业数字化变革加速推进。新基建正在带动房地产高质量建设，给房地产经济注入了新的动力。香港理工大学建设与房地产经济系在房地产经济学研究领域享有盛誉，课程由香港理工大学教授全英文讲授。房地产行业关系到国计民生，学习房地产经济学的基本理论和方法，有助于针对我国具体国情开展更深入的研究，制定更为稳健的房地产发展政策。该课程将为学生提供了解房地产价值变化影响因素的概念框架，涉及房地产市场的原则和做法，着重培养学生在房地产和投资领域应用知识和技能的能力。此外，还将介绍房地产领域的最新研究成果，学生能够了解该领域的研究前沿，以便开展后续学术研究。

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.

日程安排（暂定）(Schedule（Draft）)

July 5 - August 8

计划招生人数（Number of Participants）

共招收国际学生 **30** 名
30 international students

申请要求（Application Requirements）

（**1**）专业背景：土木工程，工程管理
Open to students enrolled at civil engineering, engineering management
（**2**）年级要求：三年级本科生
Applicants should be 3rd year undergraduate students
（**3**）外语水平：托福 **80** 分以上，雅思 **6** 分以上（或与之相当的英语水平）
Non-native English speakers should have TOEFL score of 80iBt,IELTS score of 6 or above (or equivalent)

申请截止时间 （Application Deadline）

2021 年 **6** 月 **30** 日
June 30

主办/承办单位（Host & Organizer）

中国东南大学
Southeast University, China

联系人及联系方式（Contact Information）

Session A: Dr. Yao Chen, chenyao@seu.edu.cn
Session B: Dr. Dongming Feng, dfeng@seu.edu.cn
Session C: Dr. Saina Zheng, sena_zheng@seu.edu.cn