



**Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation**



**Education**

HKBU offers a wide range of courses to stimulate divergent thinking and pioneer innovations among students and across different disciplines. We also encourage students to learn more about STEM education and artificial intelligence.

These are some of the courses:

- COMP3057 Introduction to Artificial Intelligence and Machine Learning
- EDUC1015 Teaching and Learning with Information and Communication Technology (ICT)
- FILM3147 Entertainment 3.0: Creative Industries and Technology
- ITEC1007 Getting Started with Artificial Intelligence

**Knowledge Transfer**

**Sapphire Thin Film Coated Substrate**

The HKBU patented invention entitled “Sapphire thin film coated substrate” has been named as one of the top 50 candidates at the 3rd Guangdong-Hong Kong-Macao Greater Bay Area (GBA) High-Value Patent Portfolio Contest 2021. Developed by Professor Cheah Kok-wai, Dr Elizabeth K. S. Law Endowed Professor in Advanced Materials and Chair Professor of the Department of Physics, the special substrate is one of only two candidates from Hong Kong in the top 50.



**Professor Cheah Kok Wai**  
Department of Physics

**Facility**

**Centre for Chinese Herbal Medicine Drug Development**

HKBU established the Centre for Chinese Herbal Medicine Drug Development (CDD), a state-of-the-art facility equipped with comprehensive technologies and appliances, to enhance the ability of Hong Kong to conduct research and development of novel Chinese medicine (CM) drugs according to market demands. Our CDD will not only nurture talents for the CM industry but also standardise and internationalise the development of CM drugs.



Professor Bian Zhaoxiang, Director (right), and Dr Lin Chengyuan, Senior Scientific Officer (left)

**Facility**

**The Entrepreneurship and Innovation Centre**

Established in 2016, Entrepreneurship and Innovation Centre (EIC) aspires to support entrepreneurship education in the School of Business. To promote entrepreneurship, drive innovation, and nurture creativity among our students, EIC organises seminars, workshops, and related events for students to participate in. The EIC especially plays an important role in organising entrepreneurial activities for BBA (Hons) - Programme Entrepreneurship Concentration (first of its kind in Hong Kong).





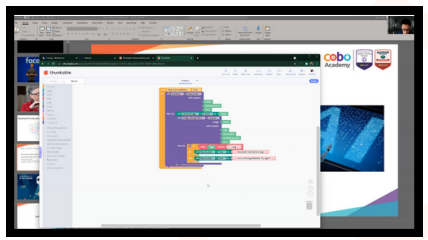
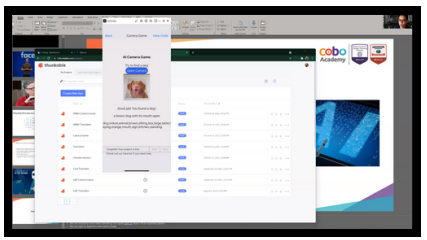
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**Event**

As science, technology, engineering, and mathematics (STEM) knowledge and artificial intelligence skills have emerged as the most in-demand skills in recent years, HKBU offers different opportunities for our students to equip them with relevant skills and knowledge to meet the demand in the market.

**Tech Discovery for All Students: Embrace AI & Build Your First Intelligent Mobile App**

In this workshop, students were exposed to basic coding and skills in building mobile apps. Using Thinkable, a platform to create mobile applications, students got the opportunity to build a smart Translator App and an AI-based image Recogniser App.



**STEM Internship Programmes**

The HKBU STEM Internship Scheme is launched with the help of the Innovation and Technology Fund. The purpose of the scheme is to encourage STEM students to gain working experience in the field of innovation and technology, film, data and media, creative and health to boost their interest in pursuing a career.

**Knowledge Transfer**

**Innovative Product Design for China Space Explorations**

Ms Anna Qin, Assistant Professor in the Academy of Visual Arts, recently collaborated with the Shenzhen ND Industrial Design and the Astronaut Centre of China to design and develop a portable ergonomic landing chair for astronauts. The Landing Chair provides immediate support to the astronauts' musculoskeletal system deterioration conditions during venue transfer. Ms Qin was the chief designer of the first generation Landing Chair for spacecraft Shenzhou-10 and is now in charge of the optimisation of the third generation (for Shenzhou-13). From ergonomics, materials and engineering, and aesthetics, Ms Qin devotes herself to enhancing the overall experience from both the users' and audiences' perspectives.



**Ms Anna Qin**  
Academy of Visual Arts

