Bachelor of Engineering (Honours) in Civil Engineering

Programme Highlights

- Developed in response to the manpower requirements arising from Major Infrastructure Projects and the aspirations for degree study of secondary school graduates;
- Provides broad-based learning exposure to civil, structural, geotechnical, environmental and hydraulic engineering; transportation and infrastructure development, building information modeling (BIM) and engineering project management;
- Enriches learning experience through internships; and
- Gains a solid understanding and foundation in the practice and theoretical knowledge of building information modeling through 80 hours of BIM workshops.

For online application:
VTC Web-based Admissions System
www.vtc.edu.hk/admission
Graduate Endorsement

“During the WIL period, my main duty was to provide assistance for reinforced concrete elements design and structural detailed drawings. The internship gave me an opportunity to utilise my knowledge and skills to overcome challenges in workplace. I was also linked up to the industry which allowed me to become work-ready.”

LO Sum Shing
2019 Graduate

Industry Endorsement

“The CE programme offered by THEi is vocationally-oriented. It strikes a fine balance between theories and practices, meeting the genuine needs of the industry. The four-year programme emphasises on work-integrated learning and industrial attachment. Therefore, students have the opportunity to work and gain practical experience in the industry. I strongly believe that graduates from the CE programme will be welcomed by employers.”

Ir Siu-lun CHEUNG
Chief Operating Officer
Build King Construction Limited

Core Courses

• Civil Engineering Construction
• Engineering Geology & Soil Mechanics
• Contract Administration & Measurement
• Design of Structures 1
• Highway Engineering
• Geotechnical & Foundation Engineering
• Design of Structures 2
• Project Management
• Earthwork Engineering
• Sustainability & Infrastructure Design

Career Prospects

Graduates may pursue in the following careers:

• Assistant Engineers
• Graduate Engineers
• Project Coordinators
• Site Agents
• Project Managers
• Civil Engineers
• Structural Engineers
• Geotechnical Engineers

Professional Recognition

This Programme is accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners

(In alphabetical order)

• AECOM Asia Company Limited
• Build King Holdings Limited
• China Geo-Engineering Corporation
• Chun Wo Development Holdings Limited
• David SK Au & Associates Limited
• Gammon Construction Limited
• Meinhardt Consulting Engineers
• Tysan Foundation Hong Kong Limited
• Wo Lee Steel Company Limited
• WSP Hong Kong Limited

Work-integrated Learning

Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Civil Engineering.
Bachelor of Engineering (Honours) in Environmental Engineering and Management
環境工程及管理（榮譽）工學士

Programme Highlights

- Develops in response to growing demands of environmental engineers for infrastructure development and industrial activities in Hong Kong and Greater Bay Area;
- Equips students with the professional knowledge and analytical skills to pursue careers as practising environmental engineers; and
- Offers multi-disciplinary perspectives on various environmental pollution (air, water, waste and noise) and sustainability issues (sustainable energy, green building and BIM technology).
Core Courses

- Air Pollution & Noise Control
- Water & Wastewater Engineering
- Integrated Solid Waste Management
- Sustainable Energy Systems
- Environmental Risk Analysis
- Environmental Impact Assessment
- Environmental Management of Construction Site
- Design of Environmental & Sustainable Facilities
- Water Resources Engineering
- Construction & Project Management

Career Prospects

Graduates may pursue in the following careers:

- Environmental Engineers
- Environmental Consultants
- Environmental Officers
- Environmental Researchers
- Green Building Consultants
- Sustainability Consultants
- Energy Consultants
- Environmental Policy Advocates

Professional Recognition

This Programme is accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners

(In alphabetical order)

- Acumen Environmental Engineering & Technologies Company Limited
- AECOM Asia Company Limited
- ATAL Engineering Group
- Build King Holdings Limited
- Chun Wo Construction Holdings Company Limited
- Cinotech Consultants Limited
- Gammon Construction Limited
- Hilti (Hong Kong) Limited
- Swire Waste Management Limited
- Yau Lee Holdings Limited

Work-integrated Learning

Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Environmental Engineering and Management.
Bachelor of Engineering (Honours) in Building Services Engineering
屋宇設備工程 (榮譽) 工學士

Programme Highlights

- Our teaching staff have rich practical industrial experience and close connections with the industry, which help students to build professional and valuable networks;
- The curriculum provides graduates with the essential academic qualification to become a corporate member of the Hong Kong Institution of Engineers (HKIE) as well as a Registered Professional Engineer (RPE) in Hong Kong;
- Our students have 480-hour paid internship opportunity. The teaching staff also closely monitor the students’ progress and provide appropriate supervision for helping them to gain the most from the Work-integrated Learning;
- We are currently the only institution in Hong Kong to arrange comprehensive training (80 hours) of BIM technology;
- Our students will become skillful BIM professionals in meeting the needs of the industry, thereby enhancing their employability; and
- We provide a professional English enrichment course tailored to the building services engineering industry to help our students to improve their English language skills and to enhance their ability in passing the HKIE professional assessment in the future.
Core Courses

- Heating, Ventilating, Air-Conditioning and Refrigeration (HVACR)
- Fire Services
- Piped Services
- Advanced Electrical Technology
- Industrial Attachment
- Building Information Modelling (BIM) for BSE
- Design for Operation and Maintenance
- Engineering Management
- Safety, Health and Industrial Training
- Final Year Project (BSE Detailed Design)

Career Prospects

**Graduates may pursue in the following careers:**

- Assistant Project Engineers in Developers
- Graduate Engineers in BSE Consulting Firms
- Assistant Engineers in BSE Contractor Companies
- Facility Management Officers
- Technical Officers in Government
- Assistant Building Services Coordinators in Construction Firms
- Systems Engineers in BSE Supplier Companies
- Researcher Assistants in Education Institutes

Professional Recognition

The programme is accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners

(In alphabetical order)

- AECOM Asia Company Limited
- ATAL Engineering Limited
- Buro Happold International (Hong Kong) Limited
- China State Construction Engineering (Hong Kong) Limited
- China State Construction International Holdings Limited
- Electrical and Mechanical Services Department (EMSD)
- FSE Engineering Group Limited
- Gammon Construction Limited
- Hip Hing Construction Company Limited
- Hsin Chong Aster Building Services Limited
- Jones Lang Lasalle Limited
- J. Roger Preston Limited
- Kai Shing Management Services Limited
- Ocean Park Corporation
- REC Engineering Company Limited
- Sanfield (Management) Limited
- Wong & Ouyang (Building Services) Limited
- WSP (Asia) Limited

Work-integrated Learning

Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Building Services Engineering.
**Bachelor of Engineering (Honours) in Aircraft Engineering**

飛機工程（榮譽）

**Programme Highlights**

- Provides students with a degree qualification in aircraft engineering so as to fulfil high-quality manpower needs of the aircraft engineering and maintenance industry;
- Prepares students to sit for the Hong Kong Civil Aviation Department (HKCAD) HKAR-66 Cat. B1.1 aircraft maintenance licence examination.

**For online application:**
VTC Web-based Admissions System
www.vtc.edu.hk/admission
Industry Endorsement

“Because of our strategic location in the heart of Asia, Hong Kong is one of the busiest aviation hubs in the world (Hong Kong Airport is the world’s third busiest for international passenger and first for cargo). The Aircraft Engineering degree programme offered by the Faculty of Science and Technology of THEi is vocationally-oriented and features both theoretical and practical trainings which meet the genuine needs of the industry. The programme is recognised by HKCAD as a HKAR66 Cat. B1.1 Basic Licence Training Course. Graduates from this programme will be professionally competent in the industry.”

Captain
CHAN Chi-pui, Michael
MBS, MBB, GMSM, AE
Former Controller, Government Flying Service
The Government of the Hong Kong Special Administration Region

Core Courses
- Aircraft Maintenance Procedures & Techniques
- Human Factor & Air Legislation
- Aerodynamics & Fluid Dynamics
- Aircraft Maintenance Organisation & Management
- Safety & Reliability
- Aircraft Avionics Systems
- Aircraft Structure & Accessory Systems
- Flight Stability & Automatic Control
- Gas Turbine Engine Design

Career Prospects
Graduates may pursue in the following careers:
- Aircraft material/parts controllers
- Cadet pilots
- Planning officers
- Non-destructive test inspectors
- Graduate trainees
- Aircraft design engineers
- Aircraft maintenance assistant engineers
- Component maintenance technicians
- Quality assurance officers
- Technical services engineers
- Management trainees

Professional Recognition
This Programme has been approved by the Hong Kong Civil Aviation Department (HKCAD) as a HKAR66 Cat. B1.1 Basic License Training Course. That means graduates who accumulate around 1,100 hours of aircraft maintenance practical training and pass all the HKAR-66 Cat. B1.1 knowledge examinations and practical assessments are eligible to get the HKAR-147 Certificate of Recognition (CoR). With this CoR, graduates only need 2 years of relevant work experience to apply for the HKAR-66 Cat. B1.1 Aircraft Maintenance Licence.

Supporting Industrial Partners
(In alphabetical order)
- Cathay Pacific Airways Limited
- China Aircraft Services Limited
- Dah Chong Hong - Dragonair Airport GSE Service Limited
- Dragon General Aviation Group Limited
- Governement Flying Service
- Guangzhou Civil Aviation College
- Hong Kong Aircraft Engineering Company Limited
- Pan Asia Pacific Aviation Services Limited

Work-integrated Learning
Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete the relevant Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Aircraft Engineering.