Building Technology

Overview

Through a simulated learning environment, students will learn the general profile of the building industry, and its latest local and global development. They will understand the work ethics and responsibilities, safety as well as sustainable development applications through interactive learning activities. Two streams viz. “Architectural Technology” and “Building Facilities Management”, are offered and students are required to indicate their preference at the time of application. This course is organised into four modules:

1. Special Features
   1. Professional recognition: Students of this course can obtain the “Certificate of Mandatory Basic Safety Training Courses” (“Green Card”) recognised by the Labour Department.
   2. Diversified learning and teaching activities: Case studies, practical training, experiments, industrial visits to commercial and residential buildings, visits to related exhibitions etc.
   3. Simulated learning environment: Equipped with industry-standard facilities, equipment and software for students to practice related knowledge and skills.
   4. Professional teaching team: Course tutors with extensive industrial experience to facilitate students’ understanding of the latest development of the related industries.

2. Architectural Technology Stream
   - Module 1: Introduction to Building Technology (36 hours)
     • Overview of the building industry
     • Sustainable building technology
     • Building safety

   - Module 2: Architectural Technology Fundamentals (54 hours)
     • Drawing and presentation
     • Structure and materials
     • Architectural practice

   - Module 3: Building Software Applications (30 hours)
     • Computer aided drafting fundamentals
     • Basic operation of building information modeling
     • Construction drawing practice

   - Module 4: Building Design Project (60 hours)
     • Architectural model making techniques
     • Project planning
     • Project on spatial design

3. Building Facilities Management Stream
   - Module 2: Building Facilities Engineering Fundamentals (54 hours)
     • Mechanical and electrical systems in buildings
     • Energy management
     • Basic calculation for facilities engineering
     • Indoor environmental quality

   - Module 3: Property and Facilities Management (30 hours)
     • Basic operation of property and facilities management
     • Customer relationship and compliant handling
     • Quality services and risk management

   - Module 4: Building Facilities Engineering Project (60 hours)
     • Computer control of facilities
     • Project planning
     • Project on intelligent building system

4. Articulation Pathways

   - Further Studies
     - Courses related to architectural engineering, building and interior design, surveying, civil engineering, project management, building services engineering, property and facilities management, energy management, environmental engineering, electrical and mechanical services engineering, building automation and control engineering etc.
     - E.g. Hong Kong Institute of Vocational Education (IVE) of the VTC
       • Higher Diploma in Building Services Engineering
       • Higher Diploma in Real Estate Management
       • Higher Diploma in Architectural Studies
       • Higher Diploma in Building Technology with Interior Design
       • Higher Diploma in Building Studies
       • Higher Diploma in Environmental Technology
       • Higher Diploma in Surveying
       • Higher Diploma in Civil Engineering

   - Specialisation Pathways
     - Higher Diploma in Civil Engineering
     - Higher Diploma in Surveying
     - Higher Diploma in Environmental Technology
     - Higher Diploma in Real Estate Management
     - Higher Diploma in Building Services Engineering
     - Higher Diploma in Building Technology with Interior Design
     - Higher Diploma in Architectural Studies

5. Class Arrangement

   Mode 1
   - Time: (Lessons will also be scheduled during summer vacation)
     - Every Saturday 9:00 am to 12:00 noon
     - Every Saturday 2:00 pm to 5:00 pm
   - Venue: • IVE (Morrison Hill) 6 Oi Kwan Road, Wan Chai, H.K. (for “Architectural Technology” Stream only)
     - • IVE (Tsing Yi) 20 Tsing Yi Road, Taing Yi Island, N.T. (for “Architectural Technology” Stream only)
     - • IVE (Tuen Mun) 18 Taing Wun Road, Tuen Mun, N.T. (for “Architectural Technology” Stream only)

   Mode 2
   - Time and venue can be flexibly arranged subject to mutual agreement between the school and the VTC.

6. Selection Arrangement

   Students are required to attend a group interview. Selection is based on student’s interest towards the industry; aptitude; communication and language skills.

7. Course Fee

   $12,100 (Course fee is fully subsidised by the EDB and secondary schools)
   (Course fee reduction will be offered to schools participating in Mode 2)