The IBPD is a mandatory course for final year students of all bachelor degree programmes currently run by the Department of Architecture and Civil Engineering. These programmes cover the studies of architecture, civil and structural engineering, building services engineering, and surveying.

Students are required to use Building Information Modelling (BIM) across all disciplines in the project development process of this course.
Being one of the densest cities in the world, modern buildings need to provide a safe, healthy and comfortable indoor environment for their use. Architectural engineering consists of the design, manufacturing, installation, commissioning and maintenance of building services systems in buildings. It is an integrated major that includes expertise in heating, ventilation and air-conditioning, electrical services, fire engineering, piped services, building energy, indoor air quality, etc.

Themes of study
• Building services engineering
• Building energy
• Heating, ventilation and air conditioning
• Fire engineering
• Piped services
• Electrical services

Professional careers
• Registered professional engineer in civil, structural and geotechnical engineering disciplines
• Project manager
• Authorized person

This major aims at equipping students with a solid foundation to work as a civil engineer. The major covers a wide spectrum of topics, for examples, construction technology, geotechnical engineering, structural engineering, engineering management, transportation engineering, hydraulic engineering and environmental engineering. Hong Kong is well-known to the world for its high population density. The high demand on super tall buildings, complex infrastructures and metro systems making civil engineering an important profession in Hong Kong.

Themes of study
• Structural analysis and design
• Geotechnical engineering and foundation design
• Environmental engineering
• Transportation engineering
• Construction technology and management
• Hydraulics and hydrology

Professional careers
• Registered professional engineer in civil, structural and geotechnical engineering disciplines
• Project manager
• Authorized person

This major aims at producing internationally qualified architectural professionals to support Hong Kong’s move to a knowledge-based economy and a world-class city. It offers a well-balanced curriculum with emphasis on the technological aspect of architectural design and construction. It is also designed to equip students with the concept of full integration between various disciplines within architectural studies.

Themes of study
• Architectural design, history, theory and criticism
• Building and environmental technology
• Sustainable and green architecture

Professional careers
• Architect and architectural designer
• Urban designer
• Interior designer
• Project manager

Bachelor of Science in Architectural Studies

Bachelor of Science in Surveying

The Surveying major aims at equipping students with knowledge of land, property, and construction for a career in the real estate and construction industry. The major provides integrated training for construction and real estate, especially for quantity surveyors who manage the construction cost and building surveyors who survey the building performance and conditions.

Themes of study
• Building control
• Contract and dispute resolution
• Construction technology
• Construction and project management
• Law for construction
• Property economics

Professional careers
• Quantity surveyor: Expert in the costing and contractual matters in development projects
  – Cost consultant
  – Contract advisor
  – Estimator
• Building surveyor: “Building Doctor”, who specialists in building control and performance
  – Maintenance surveyor
  – Building control officer
• Project Manager and authorized person

Bachelor of Science in Civil Engineering

Bachelor of Engineering in Architectural Engineering

Being one of the densest cities in the world, modern buildings need to provide a safe, healthy and comfortable indoor environment for their use. Architectural engineering consists of the design, manufacturing, installation, commissioning and maintenance of building services systems in buildings. It is an integrated major that includes expertise in heating, ventilation and air-conditioning, electrical services, fire engineering, piped services, building energy, indoor air quality, etc.

Themes of study
• Building services engineering
• Building energy
• Heating, ventilation and air conditioning
• Fire engineering
• Piped services
• Electrical services

Professional careers
• Registered professional engineer in building services, energy and fire engineering disciplines
• Project manager
• Property manager
• Equipment supply engineer
• Site engineer
• Consulting engineer

Department of Architecture and Civil Engineering

JUPAS applicants will be considered for admission to first-year studies at the Department of Architecture and Civil Engineering. Students will enter a major (current major options: BEng Architectural Engineering, BEng Civil Engineering, BSc Surveying) after one year of study. The top 40% of students will have a free choice of majors offered by the Department. The other 60% of students will be allocated a major within the Department subject to the availability of places and the selection criteria set by individual majors.