Technological and Higher Education Institute of Hong Kong
香港高等教育科技學院

香港高科院

BEng(Hons) in Building Services Engineering (BEng-BSE) 屋宇設備工程（榮譽）工學士

[SSSDP: JUPAS No. JSSV10; ST145103]

[Self-finance: Full-time: ST125103; Part-time: ST525103]

BSE

http://ibse.hk/

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Member of VTC Group
VTC 機構成員

Ir Dr Sam C M Hui
(BSE Programme Leader)
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(屋宇設備工程課程主任)
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Tsing Yi Campus 青衣校園

VTC Student Dormitory (Tsing Yi) 職業訓練局學生宿舍 (青衣)

880 beds with excellent student-enrichment facilities

More information:
http://dormitories.vtc.edu.hk/

Chai Wan Campus 柴灣校園

香港高等教育科技學院

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Programme Information

Programme and Award Title	**Bachelor of Engineering (Honours) Degree in Building Services Engineering**
Code	SSSDP: JUPAS No. JSSV10; ST145103 Self-finance: ST125103 (Full-time) / ST525103 (Part-time)
Faculty	Science and Technology
Department	Construction Technology and Engineering
Qualifications Framework (QF) Level, by HKCAAVQ	BEng(Hons) degree award – QF Level 5 Higher Diploma exit award – QF Level 4
Mode and Duration of Study	Year 1 Entry: Full time, 4 years Year 3 Entry: Full time, 2 years; Part time, 4 years
Programme Launch	1 September 2015
SSSDP Year 1 Admission (JUPAS)	Starting from AY2018/19
Admission	Year 1 Entry (start in 2015-16); Year 3 Entry (start in 2017-18)
Venue	Mainly at Tsing Yi Campus

Programme Highlights:

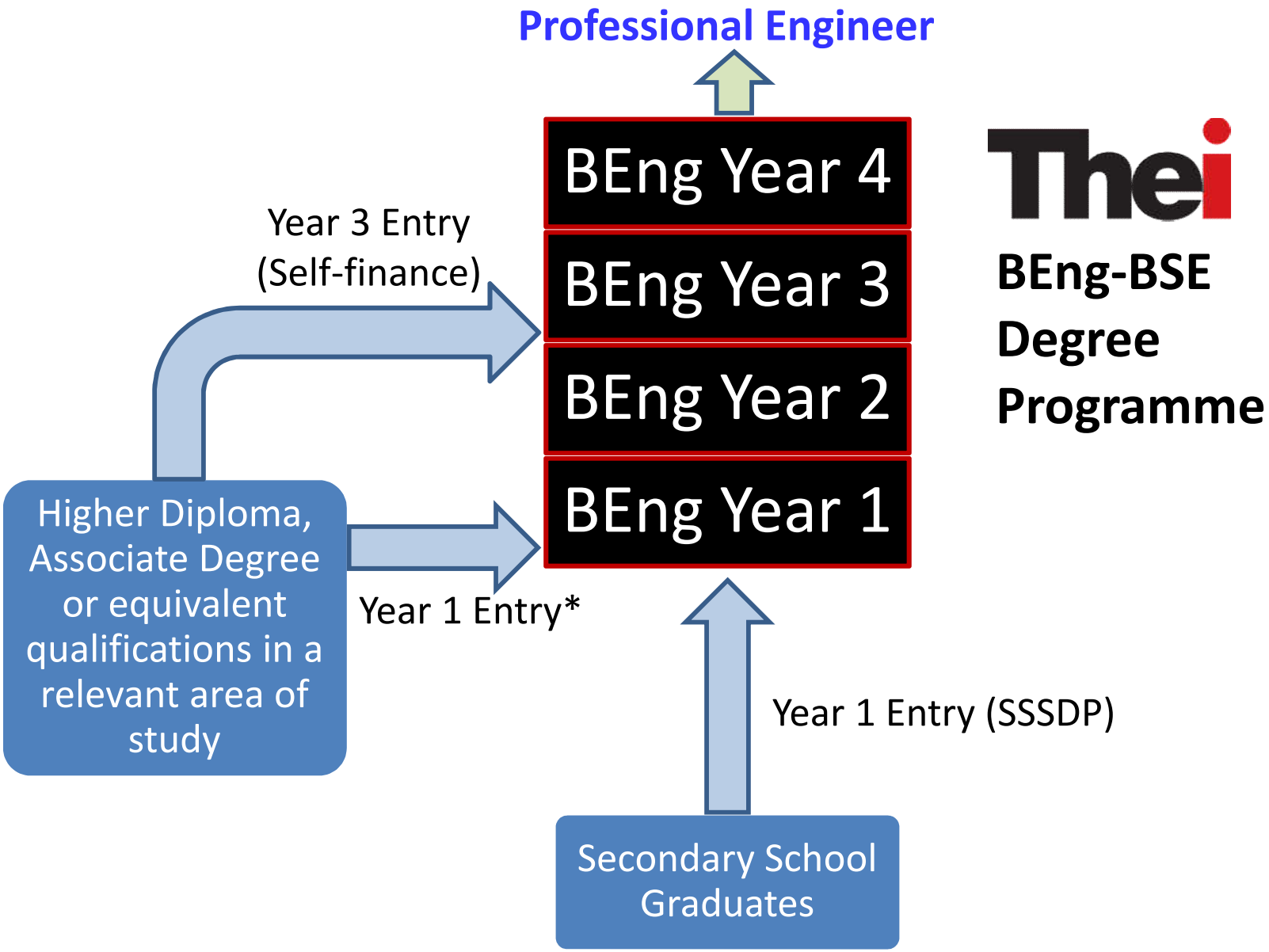
- Professional-oriented degree programme with work-ready graduates
- Fine balance in theoretical and practical education
- Accredited by Hong Kong Council for Accreditation of Academic and Vocational Qualifications (HKCAAVQ) and Hong Kong Institution of Engineers (HKIE)
- Include under Study Subsidy Scheme for Designated Professions/Sectors (SSSDP) for JUPAS admission
- Develop students with integrated concept of building sustainability through the life cycle of a building project, from cradle to grave
- New modules on BIM, green building, O&M

HKIE
THE HONG KONG INSTITUTION OF ENGINEERS
香港工程師學會

Career Prospect:

- Building services design consultants
- Engineering contractors
- Properties developer/management
- Public utilities (e.g. CLP, MTR)
- Government departments (e.g. EMSD)
- Equipment supplier/manufacturer
- Teachers/researchers

Admission Process

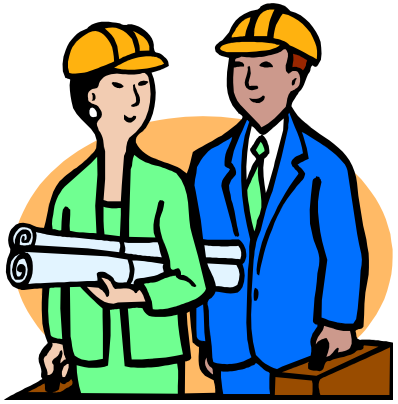


Remarks:

* Candidates with appropriate qualifications can apply for advanced standing and credit transfer/module exemption (this may help reduce the total duration of study).

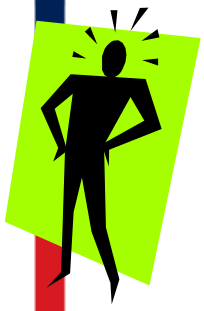
Programme Aims:

- To develop students to be highly skilled in developing and designing building services systems and be problem-solvers to meet ever-changing industry challenges, which involves complex building technology, air conditioning design, and green building assessment
- To equip students with the knowledge and skills of building services technologies, with emphasis on using projects as the main learning and teaching assessment method to reflect general industry practice



Programme Objectives (PO):

- PO1: Equip students with solid fundamental knowledge of science and engineering that will prepare them for professional careers in the building services engineering industry;
- PO2: Train students with the abilities to apply theoretical engineering knowledge to professional practice and the solution of complex contemporary problems;
- PO3: Develop students with professional skills in the design, operation, testing and maintenance of building services systems and with independent problem-solving skills, as well as good communication skills, so that they can work effectively in a multi-disciplinary project;
- PO4: Strengthen students' commitment to understand the importance of ethical and societal considerations, including those related to health, safety and environmental sustainability; and
- PO5: Build up students' leadership with national and international perspectives in the professional building services engineering and with a lifelong learning attitude.



Programme Content and Structure

General Education and Languages	• General Education Core and Elective Modules • Chinese and English Modules
Engineering Fundamentals	• Architecture & Buildings, Built Environment, Engg. Drawing • Engg. Physics , Calculus , Advanced Engg. Mathematics • Engg. Thermodynamics, Fluid Mechanics, Heat & Mass Transfer, Numerical Method for Analysis
Building Services Technology	• Electrical Services Fundamental, Advanced Electrical Technology, Power Distribution & Machines • HVACR I, HVACR II, Indoor Environmental Engineering • Piped Services, Fire Services, Lighting Technology
Pragmatic Application	• Construction CAD by AutoCAD, Basics of BIM, BIM for BSE • Engineering Management, Commissioning of Facilities, Design for Operation & Maintenance • Design Projects (Conceptual/Detail), Appl. Research Project • Building Sustainability & Green Building Assessment, Building Energy Efficiency cum Carbon Emission • + Programme Elective Modules, Work-Integrated Learning, Safety, Health & Training

Total 45 modules (132 institute credit units, 4 years)

Study Modules in Year 1 and Year 2

BEng Year 1

GEC4201	English for Academic Studies 1
GEC4301	The Human Spirit
SBS4111	Calculus
SBS4112	Engineering Physics
SBS4113	Architecture & Buildings
SBS4125	Engineering Drawing and Construction CAD
GEC4101	Chinese 1
SBS4114	Built Environment
SBS4121	Fluid Mechanics
SBS4123	Electrical Services Fundamental
SBS4124	Engineering Thermodynamics
SBS4109	Safety, Health & Industrial Training

BEng Year 2

GEC5202	English for Academic Studies 2
---	Select one GE Elective
SBS4211	Heat & Mass Transfer
SBS5211	Advanced Engineering Mathematics
SBS5212	Advanced Electrical Technology
SBS5225	HVACRI
GEC4302	Habit of Scientific Thinking
---	Select one GE Elective
SBS5221	Pipe Services
SBS5222	Indoor Environmental Engineering
SBS5223	Power Distribution & Machines
SBS5224	Engineering Management

Study Modules in Year 3 and Year 4

BEng Year 3

GEC5102	Chinese 2
GEC4303	Social Dynamics of Organisations
SBS5311	HVACRII
SBS5312	Lighting Technology
SBS5313	Fire Services
SBS5322	Basics of Building Information Modelling
GEC5206	English for Professional Purposes
---	Select one GE Elective
SBS5314	Commissioning of Facilities
SBS5321	Numerical Method for Analysis
SBS5411	Building Information Modelling for BSE
SBS4309	Industrial Attachment

BEng Year 4

---	Select one General Education Elective
SBS5397	Final Year Project 1 (BSE Conceptual Design)
SBS5412	Design for Operation & Maintenance
SBS5413	Building Sustainability & Green Building Assessment
---	Select one Programme Elective
SBS5421	Building Energy Efficiency cum Carbon Emission
SBS5498	Final Year Project 2 (Applied Research Project)
SBS5499	Final Year Project 3 (BSE Detail Design)
---	Select one Programme Elective
---	Select one Programme Elective

BSE Staff and Students

BSE Student Activities

Technical visit to Smart Power Centre

Technical visit to Trade & Industry Tower

Seminar by HKIE Past President Ir F C Chan

Singapore Study Tour 2017