Department of Electrical Engineering
(Options: BEng Computer and Data Engineering, BEng Electronic and Electrical Engineering*, BEng Information Engineering)

Our Majors
- Common first year
- Students choose a major after one year of study
- Majors offered:
  - BEng in Computer and Data Engineering (CDE)
  - BEng in Electronic and Electrical Engineering (EEE)*
  - BEng in Information Engineering (INFE)

* Change of major title from “Electronic and Communication Engineering” to “Electronic and Electrical Engineering” is subject to approval of the University.

Program Highlights

CDE - Computer Applications
- Digital Systems 數碼系統
- Computer and Embedded Systems 電腦及嵌入式系統
- Security Systems 保安系統
- Data Center and Cloud Computing 數據中心及雲端運算
- Big Data and Multimedia 大數據及多媒體科技

EEE - Electronic and Electrical Systems
- Wireless Communications & Data Technology 無線通訊及大數據技術
- Terahertz & Optical Technologies 大赫茲及光學科技
- Photonics, Electronics and Sensors 光電子、電子及感應器
- Smart Control & Power Systems 智能管理及能源系統
- Bioelectronics and Bioinformatics 生物電子和生物信息技術

INFE - Computer Network and System
- Networking and Telecommunications 網絡與通訊
- Algorithms and Software 算法與軟件
- Cybersecurity and Forensics 網絡安全與鑑證
- Artificial Intelligence and Big Data 人工智能與大數據
- Signal and Image Processing 訊號與影像處理

Job opportunities

Engineering companies, telecommunications, major utilities (CLP, PCCW)
- Engineer (Computer/Technical Support/Telecommunication/Electronic/Electrical/Hardware)
- Scientific Consultant/Technologist

Banking & financial institutions, software and IT companies, transportation (airlines, shipping), government
- IT Specialist/Network Administrator
- Analyst/Programmer/Software Engineer
- Application Developer/Game Developer

Salary Trend (2012 – 2018 graduates)

2018 graduates
40% > $20,000
60% > $19,000
Students will apply for admission to the Department of Electrical Engineering (JS 1205) and enter a major after one year of study.

**Entrance Requirements and Levels**

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**Notes:**
- Specified subjects under Elective 1 include M1-Calculus and Statistics/M2-Algebra and Calculus, Information and Communication Technology, Physics, Chemistry, Biology, Combined Science and Integrated Science.

**Other Considerations**
- When considering the priority list of student applicants, we mainly consider subject results obtained in current and past two years.

**Direct / Non-JUPAS Applicants**
- General Entrance Requirements (http://www.admo.cityu.edu.hk/direct/entreq/bd/), and possess Science or Engineering background.
- Associate Degree (AD)/Higher Diploma (HD) graduates or final year students may apply for admission to major programmes with Advanced Standing (Year 2 or Year 3). Applicants are normally expected to have completed the AD/HD award with a CGPA of ≥3.0, or an equivalent overall mark or a credit award.
- Other high school qualifications, e.g. GCE, IB, overseas, AD/HD Year 1 students, may apply to enter Year 1.

**Graduate Career Outlook**

**High demand for EE graduates**

It has been consistently revealed in different manpower projection surveys and career-related news that IT professionals and engineers are highly sought-after in different business sectors.

**Department’s Highlights**

1. Largest EE department among local universities with 56 professors
2. Ranked 15th in Engineering worldwide and 1st in Hong Kong (U.S. News Best Global Universities Rankings 2019); 37th worldwide and 1st in Hong Kong in Electrical and Electronic Engineering (Academic Ranking of World Universities 2018 by Shanghai Jiao Tong University)
3. The department boasts 2 Fellows of the Royal Academy of Engineering (UK), 1 Fellow of the World Academy of Sciences, 1 Highly Cited Researcher (for six years by Clarivate Analytics), 15 IEEE Fellows, and 3 Croucher Foundation Senior Research Fellows
4. Six EE professors have been awarded the Teaching Excellence Award by the University
5. A caring department emphasizing students’ well-roundedness apart from their technical know-how through ample co-curricular activities – Student Tutoring Scheme, Honor Society, Student Exchange, Internships, Study Tours, Softskill and Career Advising Workshops
6. Offering three undergraduate major programmes, two taught master programmes, and two research degree programmes (approx. 1,400 students)
7. With the support from the Ministry of Science and Technology, State Key Laboratory of Terahertz and Millimeter Waves established in 2008 is the first such laboratory in engineering discipline in Hong Kong
8. Laboratory space about 5,000 sq. meters