JS1205 Department of Electronic Engineering
(options: BEng Computer and Data Engineering, BEng Electronic and Communication Engineering, BEng Information Engineering)

電子工程學系
[選項：工學士（電子計算機及數據工程學）、工學士（電子及通訊工程學）、工學士（資訊工程學）]

Professional Recognition
All major programmes offered by the Department of Electronic Engineering have been accredited by the Hong Kong Institution of Engineers. Based on the Washington Accord, graduates receive reciprocal recognition from the equivalent bodies in Australia, Canada, China, Chinese Taipei, Hong Kong-China, India, Ireland, Japan, Korea, Malaysia, New Zealand, Pakistan, Russia, Singapore, South Africa, Sri Lanka, Turkey, the United Kingdom and the United States.

Website  http://www.ee.cityu.edu.hk
Tel      (852) 3442 7740
E-mail  eedept@cityu.edu.hk

CityU
Our Majors

- Common first year
- Students choose a major after one year of study

BEng in Computer and Data Engineering (CDE) 工學士 (電子計算機及數據工程學)
BEng in Electronic and Communication Engineering (ECE) 工學士 (電子及通訊工程學)
BEng in Information Engineering (INFE) 工學士 (資訊工程學)

Programme 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

ECE  Communication & Engineering
- Wireless Communications & Optical Communications 無線通訊及光通訊系統
- Data Technology & Digital Mobile 數據技術及流動數碼
- Smart Controls & Power Systems 智能控制及能源系統
- e-Security & e-Circuit Design 資訊保安及電子電路設計
- AI Engineering 人工|智能工程

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, major utilities (CLP, PCCW), transportation (airlines, shipping), government
- IT Specialist / Network Administrator
- Analyst / Programmer / Software Engineer
- Application Developer / Game Developer

Salary Trend

(2012 - 2017 graduates)
$17,000
$16,000
$15,000
$14,000
$13,000
$12,000

Global Outreach

Uplifting students' global outreach and international competitiveness through student exchange is one of the Department's goals. From 2013 to 2016, over 460 students were sent out to top universities in the USA, Singapore, Finland, Germany, Canada, Czech Republic, Netherlands, Spain, Sweden, UK, France, Belgium, Korea, Taiwan and mainland China for semester-long exchange and summer exchange.

Also, there is Overseas Internship Scheme (OIS) to provide students with internship opportunities abroad. Around 40-50 students from the Department are selected yearly to join the Scheme to France, Korea, Singapore, the U.S.A., the U.K., and Canada.

Student Learning Support

The Course Tutoring and Peer Tutoring Schemes aim to nurture good learning skills in our students. Outstanding senior year students are selected to coach students in study through tutorials, regular meetings, and out-of-classroom time. The schemes have successfully created a positive learning ambience among peers and have been well received among students.

Internships

In collaboration with industry, the Department aims to provide students with real work experience during their university years and thus better preparing them for work upon graduation through different internship schemes. Students are connected to prominent industrial and business leaders and 60-80 places are secured yearly. Students are free to choose schemes of different duration from 3 months to 1 year.

Graduation Ceremony 2017

Department of Electronic Engineering

Congratulations!
Entrance Requirements

HKDSE JUPAS Applicants

Students will apply for admission to the Department of Electronic Engineering (JS1205) and enter a major after one year of study.

Entrance Requirements and Levels

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<tbody>
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<td>Level</td>
<td>Level 3</td>
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<td>Notes:</td>
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<td>any one of specified subjects (max 2)</td>
<td>any one subject (max 2)</td>
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Other Considerations

- When considering the priority list of applicants, we mainly consider subject results obtained in current and past two years.
- More details about assessment of applications and other information, including subject weighting for main consideration are available at: http://www.admo.cityu.edu.hk/jupas_hkdse/assessment/bd/

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.

Assessment of Applications

For applicants who have fulfilled the minimum entrance requirements, various types of admission scores are calculated to help the selection of applicants. Presented below is the main admission score used for JS1205.

Admission Score for Main Consideration

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<tbody>
<tr>
<td>4 core + 2 elective subjects</td>
<td>2</td>
<td>1</td>
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<td>1</td>
<td>2 for</td>
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<td>M1 / M2*</td>
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<td></td>
<td>Information and Communication Technology</td>
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<td>Physics</td>
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<td>Combined Science (Phy + Chem) or (Phy + Bio)</td>
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<td>1.5 for</td>
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<td>Chemistry</td>
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<td></td>
<td>Biology</td>
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<td>Combined Science (Bio + Chem) or Integrated Science</td>
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<td></td>
<td>1 for other electives</td>
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</tbody>
</table>

Examples

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Student 1</th>
<th>Student 2</th>
<th>Student 3</th>
<th>Student 4</th>
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<tbody>
<tr>
<td>Core</td>
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<tr>
<td>English Language</td>
<td>5 (x 2)</td>
<td>4 (x 2)</td>
<td>3 (x 2)</td>
<td>3 (x 2)</td>
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<tr>
<td>Chinese Language</td>
<td>4 (x 1)</td>
<td>4 (x 1)</td>
<td>3 (x 1)</td>
<td>3 (x 1)</td>
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<tr>
<td>Liberal Studies</td>
<td>5 (x 1)</td>
<td>4 (x 1)</td>
<td>3 (x 1)</td>
<td>3 (x 1)</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 (x 2)</td>
<td>4 (x 2)</td>
<td>5 (x 2)</td>
<td>5 (x 2)</td>
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<tr>
<td>Elective 1</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Chemistry</td>
<td>4 (x 1.5)</td>
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<tr>
<td>Information and Communication Technology</td>
<td>4 (x 2)</td>
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<tr>
<td>Elective 2</td>
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<tr>
<td>Math Extended Module 1 or 2</td>
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<tr>
<td>Information and Communication Technology</td>
<td>4 (x 2)</td>
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<tr>
<td>Biology</td>
<td>4 (x 1.5)</td>
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<tr>
<td>Economics</td>
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<tr>
<td>Unweighted score</td>
<td>26</td>
<td>24</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>Weighted Score of 4 core + 2 elective subjects</td>
<td>39</td>
<td>40</td>
<td>40</td>
<td>37</td>
</tr>
</tbody>
</table>

( ) denotes the subject weighting

*Mathematics extended modules (M1/M2) can be counted toward one elective only.
According to the latest 5 years’ Graduate Engagement Survey, over 95% of our graduates were engaged in either employment or postgraduate studies soon after the final exam. The average salary of fresh graduate 2017 was about $17,000. They are engaged in different sectors including IT & engineering, finance and banking, business management, real estate, law, civil services and education.

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.

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**Candy Liu (1999, BSc), General Manager HKC Technology Limited**

Ms Ling Tsz Yan (2017 BEng), Process Engineer ASM Technology Hong Kong Limited

Mr Tim Ip (2008 BEng), Security Specialist University of San Francisco

Mr. Wyan Wong (2005 BEng), Project Manager Morgan Stanley

Miss Hui Mei Suet (2014 BEng), Support Engineer MTR

Mr. Frank Wang (2010 BEng), Security Engineering Manager Google, U.S.

Mr. Peter Yu (2010 BEng), Service Engineer Rutledge AV Melbourne

Dr Wu Boping (2005 BEng), Principal Architect Huawei Hisilicon Semiconductor

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Source: 1 August 2018, 經濟通 etnet

Source: 2018-19 政府財政預算案

Source: jobsDB.com (JobsDB 2018年薪酬調查報告)

Source: 1 August 2018, 經濟通 etnet
Student Achievements

- Winner in HSBC Safeguard App Competition (HK$100,000 cash prize)
- IET Prizes 2017
- Second Prize in the 10th International Underwater Robot Competition (2017)
- Fullbright Science and Technology Fellowship from US Department of State
- Winning Three Prizes in Robocon Hong Kong Contest 2017
- HK$100,000 from The Cyberport University Partnership Programme 2017 (FinTech Start-up Project)
- Winning Two Prizes at ICAN 2017 (Canada)
- Second Runner-up in Bank of China HK FinTech Hackathon
- IEEE MTTS Undergraduate Pregraduate Scholarship for Spring 2017
- Champion of Disney Imaginations Hong Kong Design Competition 2016

Department’s Highlights

1. Largest EE department among local universities with 55 professors
2. Ranked 15th in Engineering worldwide (US News 2018) and 31st worldwide in Electrical and Electronic Engineering in 2017 (Academic Ranking of World Universities by Shanghai Jiao Tong University)
3. The department boasts 1 Fellow of the Royal Academy of Engineering (UK), 14 IEEE Fellows, one Fellow of the Optical Society of America, one Fellow of the International Federation of Automatic Control, and three 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
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