

Other Engineering Free Electives, General Graduation Project + Specialized Courses **Education & Languages** Year 4 or 5 Capstone Project Computer Networks **Business Administration** Data Structure Advanced Electives: Law Software Engineering IC Design, Robotic Intelligence Micro-optics, Science **Engineering Economics** Nano Technology, Photovoltaic Technology, Social Science Machine Learning Power Systems, Antenna Design, RF Circuits, Arts, Music Cyber Security Image and Audio Processing, 5G Communication Artificial Intelligence Sports Year 4 Financial Technology One-Year Work-Study Programme (optional) Linguistics Advanced Major Courses Year 3 Technical Electives: Professional training: Photonics, Optical Fibers, Circuit Design, "Build a Gadget" Semiconductor Devices, Digital Signal Processing, "Code an App" Entrepreneurship Power Electronics, Medical Instrumentations Research Skills Applied Electromagnetics Communication Systems Technology and Society Fundamental Major Courses Year 2 **Engineering Mathematics** Digital Systems Microelectronic Devices **Electric Circuits** Electronics System Design Signals & Systems Foundation Courses Year 1 Mathematics **Physics** Computer Programming Fundamental Major Courses Digital Systems **Engineering Practium**

Student Whole-person Development

Work-study Programme and Internship 工讀計劃及實習

Our work-study programme was first introduced in 1975 in the belief that combining course work and industrial training would narrow the gap between academic education and practical engineering. Students can participate in the work-study programme, as full-time employee and continue his/her final year of study after that. Most of the students appreciated that the work-study experience was a precious opportunity to learn from what a professional engineer actually do before kick-starting their career.

Participating companies include:

- · ASMPT Technology Hong Kong Ltd.
- CLP Power Hong Kong Ltd.
- Electrical and Mechanical Services Department, HKSAR Government
- Huawei Tech. Investment Co. Ltd.
- HSBC (The Hongkong and Shanghai Banking Corporation Ltd.)
- MTR Corporation Ltd.
- SmarTone Telecommunications Holdings Ltd.

Overseas Exchange Programme 海外交流計劃

EE students can gain international exposure by going for a short term or year-long overseas exchange. Examples: University of Pennsylvania (USA), Technical University of Denmark (Denmark), Karlsruhe Institute of Technology (Germany), KTH Royal Institute of Technology (Sweden), Nanyang Technological University (Singapore)



EE students having an extraordinary learning experience in visiting technology giants and start-up companies in Silicon Valley, California during July 22 - August 2, 2019.



BANG, Tae Won Visited Georgia Institute of Technology in USA in 2019-20



Mr. Leung Ho Man
Received the prestigious Innovation and
Technology Scholarship to support his
one-year exchange programme to the
University of Liverpool in the UK in 2019-20.

Comprehensive Learning Environment 全方位學習環境

The Teaching Laboratory II and showroom with the latest equipment were newly opened from 2021.

Undergraduate STEM Ambassador Programme STEM 學生大使計劃

The "50th Anniversary Undergraduate STEM Ambassador Programme" is conducted by our Undergraduate STEM Ambassadors, coaching other CUEE peers or/and secondary students. Students could enrich their electronic engineering background by learning and applying theoretical engineering knowledge to real-life applications.





中大研究表現於 2020年研究評審工作獲認同

CUHK Research Performances Recognised by RAE 2020











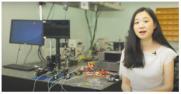
Innovation and Research 創新與科研

Research Assessment Exercise 2020 (RAE 2020), which is an extensive independent assessment of research performance of the eight UGC-funded universities in research over a period of 6 years from year 2015 to year 2020. Electronic Engineering of the Chinese University of Hong Kong received 87%, the highest proportion of world leading (4*) and internationally excellent (3*) research within the Electrical and Electronic Engineering area in Hong Kong, according to RAE 2020 by the University Grants Committee of Hong Kong.

Our Engineering cares neighborhoods 我們的工程關愛社群

We developed wearable blood pressure sensor to provide 24x7 healthcare monitoring services.







We developed an underground wireless smart drainage system for the Drainage Services Department.



View our story

Electronic

We developed an A.I. speech recognition APP for speech disorder detection & keeping voices of someone who is losing ability to speak.



View our story

We train you to become a well-rounded engineer

Do you know what "Electronic" meant in Electronic Engineering?

- Computer Vision / Voice Recognition

Intergrated Circuit
- Semi-Conductor Devices/Arduino /
Microcontroller

Optical Fiber/ Memory/ Communication

Wearable Devices
Sensor / Smart Watch

Biomedical
- Medical Diagnosis

Artificial Intelligence
- Object Recognition / Deep Learning

App Development - IOS / Android App & AR / VR

Robotics
- Machine Learning

Solid States - <u>Solar Cell</u> / Materials / SSD

Communication - 5G / Bluetooth / Wifi / RFID / Antenna / Internet of Things



Multimedia Technology 多媒體技術

Digital Entertainment: High Definition Digital TV, Computer Animation

& Virtual Reality, Computer Generation of Voice & Music 數碼娛樂:高清晰度數碼電視;電腦動畫與虛擬真實;

電腦合成人聲與音樂

Health & Medical: Digital Hearing Aids, Medical Image Processing

醫療保健:數碼助聽器;醫療圖像處理

Smart City: Autonomous Driving, Forensic Voice Verification, Intelligent

Surveillance Vision

智慧城市:自動駕駛;人聲識別與鑒真;

智慧視覺保安監控







Optoelectronics & Optical Communication 光電子與光通信

Optical Communication: Cable TV, Broadband Internet

光通信技術:有線電視;寬頻網絡

Micro-optics: Optical Memory, LCD Projectors, CCD Camera

微光米學:光記憶體;液晶投影;CCD攝像機

Integrated Optics: High-Speed Fibre Optic Components

集成光學:高速光纖器件



Semiconductor Devices & Integrated Circuits 半導體器件與集成電路

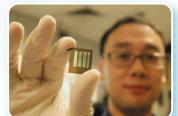
Mixed Signal Integrated-Circuit Design: Mobile Phone

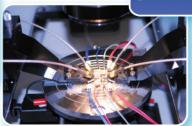
混合信號集成電路:流動電話

Smart Cards: Octopus, HKID Card 智能卡裝置:八達通;身份證

Nano-meter Semiconductor Devices and Materials

納米半導體器件和材料





Wireless Technology 無線通信技術

Antenna, Bluetooth, WiFi 天線;藍牙技術; WiFi

Radio Frequency Identification (RFID) for Logistics 應用射頻識別技術的物流系統

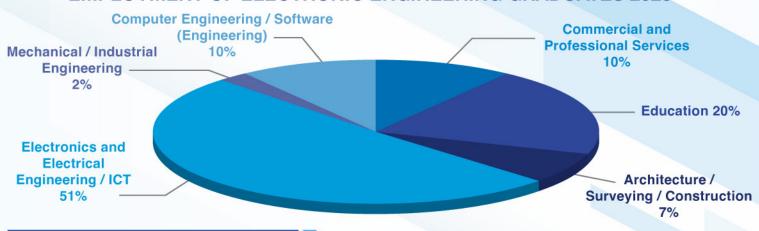
Wireless LAN 無線區域網絡

Radio-frequency Radiation Measurement 無線電波幅射測量





EMPLOYMENT OF ELECTRONIC ENGINEERING GRADUATES 2023



Professional Engineers 專業工程人士



POON Hiu Ching, Peggy Electronics Engineer





MUI Tin Wai Network Manager (Infrastructure Engineering Control Centre)





Lee Ho Tin

Graduate Trainee





CHENG Foon Lok
Assistant Electronic
Engineer

porticos



WONG Chi Wai

Assistant Engineer



Entrepreneurs 企業家



WONG Wai Kay, Ricky
Founder of Hong Kong Technology
Venture Company Limited
(HKTV & HKTVmall)





TSANG Wai Wah, Martin CEO and Founder of Halo Energy Limited





CHEUNG Ka In, Debi Founder of DocumentOnReady

DocumentOnReady



LI, Linkai
Co-founder of
Orka Inc.



Researchers 研究學者



FOK Mei Po, Mable Professor



CHOW Chi Wai Professor





WAI Hoi To
Assistant
Professor at
SEEM
Department





TSANG Sai Wing

Associate

Professor



Programme Entrance Requirements 課程入學要求

The JUPAS code of Beng in Electronic Engineering is JS4434. Admission is based on the Best 5 HKDSE subject results with subject weighting. For details of subject weighting, please refer to the table below.

Minimum Admission Requirement	Subject	Minimum Grade	Subject Weighting
Core Subjects	Chinese Language	3	1
	English Language	3	1
	Mathematics	3	1.5
	Citizenship and Social Development	A (Attained)	/
Two Elective Subjects	Any one science subject from the following: Biology/ Chemistry/ Physics/ Information and Communication Technology/ Mathematics Extended Module I or II	3	1 (1.5 for Physics, M1/M2 if applicable)
	All other Elective Subjects		#

[#] The Programme accepts any one subject as the second elective. The preferred subjects include Physics and Mathematics Extended Module 1 or 2. Subject weighting of 1.5 is given to the preferred subjects; and 1.0 is given to any other subjects. In addition to the requirements above, bonus points will be awarded to the 6th and 7th subjects, it any.

Admission Scholarships 入學獎學金

The Department of Electronic Engineering offers admission scholarships, on top of those from the University and Faculty, to new undergraduate students on the basis of their excellent academic performance.

Category	Quota	Amount (HKD)
for JUPAS students [1] - Achieve 5** in one or more STEM subjects [2] - Achieve 5* in two or more STEM subjects [3] - Achieve 5* in one STEM subject [3]	100 Students	\$20,000 /student \$10,000 /student \$5,000 /student
Non-JUPAS local students	4 students	\$15,000 /student
International student	1 student	\$100,000

- [1] Including the students admitted via the School Nominations Direct Admission Scheme (SNDAS) of that entry year.
- [2] Any of the following subjects is considered as a STEM subject: Mathematics (Compulsory Part), Mathematics (Module 1 or Module 2), Physics, Chemistry, Biology, Information and Communication Technology.
- [3] Not for students who achieve 5** in at least one STEM subject.

電子工程學課程 Electronic Engineering Programme

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