



Bachelor of Engineering with Honours in Electronic & Computer Engineering

電子及電腦工程學 榮譽工學士

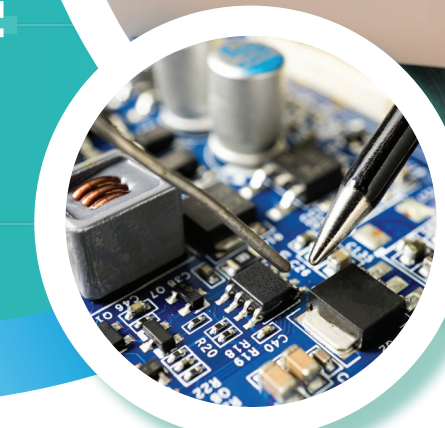
JUPAS
Programme



JUPAS code: JS9720
Year 1 Entry : BENGHECEJ1

Full-time

4 years



Highlights

Mathematics, Electronics, Computing, Computer Network, Software Programming, Signal Processing, Digital Communication. Specialized courses: High Performance Computer Design, Wireless Communication, Digital Multimedia, Signal Processing, Biomedical Technologies, Computer Network, Mobile Application Development. Compulsory Industrial Training & Summer Internship.

Career prospects

Eligible for HKIE Scheme "A" Training

- Electronic engineer
- Computer engineer
- Network engineer
- Wireless engineer
- Product engineer
- Telecommunication engineer
- System engineer
- System analyst
- Mobile application developer
- Programmer
- Electronic products
- Finance
- Government
- Healthcare
- Logistics
- Consultants
- Engineering systems
- Information technology
- Cloud & data center
- Network service provider
- Mobile service provider
- Manufacturer

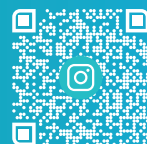
Enquiries & Information

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www.hkmu.edu.hk/st/ece



HKMUECE

Practical & Wide Coverage



High demand for engineers in electronic, hardware, software, network, wireless communication & smart infrastructure



Globally recognized honours degree accredited by The Hong Kong Institution of Engineers (HKIE)



Wide range of career prospects. Internship opportunities. Graduates eligible for HKIE Scheme "A" training.



Smart city infrastructures, smart devices, IoT, 5G, healthcare, finance, network, manufacturing, transportation, logistics

Course highlights

- Advanced Computer Design
- Computer Networking
- Multimedia Technologies
- Medical Equipment
- Communications Systems
- Routing & Switching Technology
- Digital Communication
- Software Engineering
- Summer Internship
- Electronic Circuit Design
- Mobile Application Development
- Industrial Training
- Digital Signal Processing
- Wireless Networks
- Computer & Network Security
- Biomedical Informatics



Student Activities



Overseas Study Tours

Students are provided with opportunities to join overseas study tours, in which they engage in academic exchange with professionals & students at overseas universities; visit companies and professional organizations to gain a better understanding of the technological developments; and experience different cultures. Each tour is a great learning experience outside the classroom environment.



Visits & Seminars

Technical visits to companies & facilities are regularly organized. Places visited include CLP, HEC, EMSD, GFS, Ngong Ping 360, Ngong Ping Sewage Treatment Works, Cathay Pacific, Zero Carbon Building, Ocean Park, HAECO, Googol Technology, City of Dreams, Hong Kong Blind Union, and Science Park. Students are provided the opportunity to learn about career prospect, the newest technologies, and social impacts of innovation.



Career Development

Alumni, career consultants, and senior management staff from I.T. and engineering corporations are invited to share about the latest updates of the industry. Topics include career planning, market trend, CV writing, and tips for further studies. These seminars serve to better equip our students for their next milestone in life.



Industrial Training



Industrial Training is a course for Year-2 students. It emphasizes the practical experiences that complement the theories covered in other courses. Students attend 140 hours of in-house practical training in the second summer term. Topics include industrial safety, electronic testing methodologies, building electronic circuits, design & fabrication of printed circuit board (PCB), microcontroller applications, virtual instrumentation, product prototyping, computer-aided design & manufacturing (CAD/CAM), and computer network setup.

Integrated Project

Integrated Project provides students with the chance to solve a real-world problem using engineering knowledge, creativity, teamwork, and important soft skills. The project requires literature survey, site visits, hardware building, Python programming, presentations, and eventually development of a Raspberry Pi-based automated system. The course serves to equip freshmen with the foundation to manage engineering projects in the future. Past project themes include automated drones, self-driving cars / boats, rope climbing robots, and robotic arm.

Student Training

Industrial Placement

Industrial Placement is summer internship in which Year-3 students attach to local companies for 2 to 3 months. Training involves a wide range of engineering and IT disciplines. Students are required to demonstrate their achievement of the learning outcomes by maintaining records of their work and training activities. Companies that have participated include PCCW Services, HKT, Tricor Services, Hopewell Holdings, Cherrypicks, Tonggas, ASL, Welfare Electronic Component, ITAPPS, Alliance K Medical Device, Integrated Corporation, Hong Kong Airport Services, Price.com.hk, Midland Realty, ICO, Intertek, iAsia, ITE Smartcard Solutions, RF Tech, IHP, 36 Technology, Dream Gotcha, and Global Technology Integrator.



Final Year Project

Electronic & Computer Engineering Project provides opportunity for final year students to work on a year-long project. The course aims to build confidence in the students to organize strategies, plan schedule, and tackle scientific, technical, business or social problems. Students need to explore an area in considerable depth and demonstrate problem solving & analytical skills.

Topic areas include computer simulation, biomedical engineering, mobile application development, artificial intelligence, software development, IoT, embedded systems, and scientific research. Selected projects are collaborated with industrial & academic partners.

