JS1204 BSc Computer Science

PROGRAMME DESIGN

**Software Engineering & Project Management**
- Software Quality Management
- Managing Software Projects
- Software Testing and Maintenance

**Multimedia Computing**
- Computer Graphics
- Multimodal Interface Design

**Stream Electives (choose 1 course)**
- Computer Vision & Image Processing
- Computer Vision for Interactivity
- Virtual Reality

**Information Security**
- Internet Security and E-Commerce Protocols
- Information Security and Management
- Topics in Cybersecurity

**Data Science**
- Fundamentals of Data Science
- Data-Intensive Computing
- Machine Learning

**Core Subjects**
- Computer Programming
- Internet Applications Development
- Data Structures
- Algorithms
- Software Engineering
- Database
- Computer Networks
- Operating Systems
- Computer Organisation
- IT Professional Placement
- Final Year Project
- Seminar Series

**RECOGNIZED PROFESSIONAL QUALIFICATION**

BSc Computer Science is Hong Kong’s FIRST bachelor’s degree programme in computer science accredited by the Hong Kong Institution of Engineers (HKIE).

Students are qualified as official member upon graduation.

**IT PROFESSIONAL PLACEMENT**

- 9-month full-time employment in the computing industry
- 1 day off weekly for taking courses

**Employers’ Feedback**

- **HK Electric**
  - “He is an intelligent and diligent person with excellent programming and self-learning skills and capabilities. He was able to complete all the assigned tasks using K2 workflow from scratch and all by himself with minimum supervision. Overall performance is excellent.”

- **Hong Kong Housing Authority**
  - “He was able to work independently and accomplished tasks in a new and complex system environment. His immediate supervisor, one of our experienced Systems Analysts, showed much appreciation to his good quality of work and excellent working attitude.”

- **HSBC**
  - “He has consistently demonstrated impressive performance throughout the year. He is reliable, responsible and skilled in handling all assigned tasks and solving complex problems with ease. He is also able to work independently with minimal coaching.”

- **Siemens**
  - “He worked independently to develop an iOS based mobile application for Siemens to support project site progress reporting via iPhone.”

**Students’ Feedback**

- “Placement is an important learning experience, allowing me to apply theoretical knowledge in a professional setting, learning new skills and being exposed to a range of situations and problems. It has enabled me to develop a sense of what it would be like to work as an employee.”

- “The placement experience has advanced my understanding of programming, after I have been thoroughly involving in an actual work environment. The experience I gained from the professional environment has made me more adept at coding, problem solving, and communication.”

- “I would like to thank CS department for providing me a valuable learning opportunity to work in a real working place. The placement year is a big milestone in my life - it helps me know more about the role of computer science in life and have a better understanding of myself.”

- “The technical skills and problem solving capability I learnt from placement have enriched my knowledge and are instrumental in helping me build my future career. I also have a deeper understanding of the structure and functioning of an IT unit, and have more interest in the IT industry.”

**Placement Companies**

- HKEX
- HSBC
- KPMG
- Siemens
- IBM

*Note:* Offering of the Artificial Intelligence Stream and restructuring of the Multimedia Computing Stream are subject to approval by the relevant University committees.