Bachelor of Science : **JS2510**

INFORMATION SYSTEMS AND ANALYTICS

A concentration of
BSc (Hons) in Computer Science

OVERVIEW

The ISA concentration equips students with knowledge and practices of information systems **design, development** and **integration**, as well as information **analytics** skills for creative applications in real-world organizations. This concentration prepares students for a career in computer science or information technology related areas.

SOLID AND BROAD FOUNDATION IN COMPUTER SCIENCE

Core courses of ISA Concentration contains key topics:

System **D**esign and Integration

IS **S**trategies

Software **D**evelopment

Data **A**nalysis

IN-DEPTH KNOWLEDGE IN SELECTED COMPUTING TECHNOLOGY AREAS

Students can select major elective courses to explore advances and contemporary topics, such as:

1. Artificial Intelligence and Machine Learning
2. Business Intelligence and Decision Support
3. Data Mining and Knowledge Discovery
4. E-Business Technology
5. Health Information Technology
6. Recommender Systems and Applications
7. Social Computing and Web Intelligence

PRACTICAL TRAINING

There are **projects** associated to individual courses for students to apply what they have learnt from their courses to solve real life problems as well as to experience the importance of teamwork during software and system development. Each student should engage in a Final Year Project which is a highly independent problem solving activity during the final year of his/her study. Students may work with companies and non-profit organizations on the system development projects.

CAREER SUPPORT

- INTERVIEW PREPARATION
- CV WORKSHOP
- INTERNSHIP
- ADVISORS ON GRADUATE STUDIES PREPARATION
- SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP (SURF)

STUDENT ENRICHMENT

Students can learn outside classroom for social interaction, interpersonal development, intellectual collaboration, multi-cultural learning, and community service. It paves the way for the students to become global citizens and business leaders. Students can join activities such as:

- Mentoring Scheme, Overseas Research, Company Visit, Competition, Student Society (Computer Science Society, HKIE Student Chapter, IEEE Student Chapter), Service or Experiential Learning

PROMISING FUTURE

Graduates of ISA Concentration have diversified career paths. They can work as:

Analyst programmer, mobile application developer, system analyst, business analyst, technical specialist, technical consultant, project manager, etc.

DOUBLE CONCENTRATION OPTION

Students from ISA Concentration are eligible to take Data and Media Communication (DMC) as the second concentration.

ENQUIRY

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Faculty of Science

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