



Bachelor of Science (Honours) in Information and Communications Technology 資訊及通訊科技(榮譽)理學士

YEAR 1 ENTRY
SELF-FINANCING
DS125109

YEAR 3 ENTRY
SELF-FINANCING
DS125109 (FULL-TIME)
DS525109 (PART-TIME)

PROGRAMME HIGHLIGHTS

- Integrate conceptual and technological knowledge with practices for data analytics, software engineering, cloud computing and cybersecurity
- Cover cutting-edge and prevalent technologies including Machine Learning, Data Science, Cloud Computing, Cybersecurity, Internet of Things, Mobile App Development, Full Stack Development and Game Development
- Enhance students' abilities and competence to meet the needs of the latest-growing information and communications technology industry in Hong Kong

Programme Overview

This programme aims to provide students with the conceptual and technological knowledge for data analytics and software engineering as well as network and system configuration. Emphasis is on integration of theoretical knowledge with practical skills on implementing applications. Graduates will be able to apply proven principles and techniques to the development and support of computer systems. A distinguished feature of the programme is that it will enhance students' abilities and competence to meet the needs of the fast-growing information and communications technology industry in Hong Kong.

Career Prospects

Graduates will be employed as Software Developers, Network Engineers, Data Analysts, AI Engineers, Security Engineers, Game Software Developers, Mobile and Web Application Programmers, rising to challenging prospects such as ICT Project Managers, Data Scientists, Security Consultants/Managers, Game Software Technical Officers, Internetworking Administrators and other managerial positions.





Graduate Endorsement

"After joining ICT programme, I found the knowledge delivered are closely related to the needs of industry. It empowers me in facing the challenges ahead."

LEUNG Ka Shing

2019 Graduate

PROGRAMME STRUCTURE

YEAR 1

- Discrete Mathematics, Probability & Statistics
- Information Technology Essentials
- Introduction to Programming
- Network Fundamentals
- Database Principles
- Object-Oriented Programming
- Multimedia Websites Design & Practices
- Applied Mathematics for Science & Technology
- Chinese 1
- Creativity & Innovation in Society
- English for Academic Studies 1

YEAR 2

- Operating Systems & Architecture
- Web Applications Development
- Software Engineering & Project Management
- ICT Professionalism
- Object-Oriented System Analysis & Design
- Data Structures & Algorithms
- Software Development Project
- A.I. and Blockchain in Society & Work
- Entrepreneurial Mindset
- GE Elective 1
- GE Elective 2

YEAR 3

- Advanced Database Systems
- Mobile Applications Development
- Game Engines & Game Development
- Cloud Computing
- Network Switching & Routing
- Enterprise Architecture & System Development
- Work-integrated Learning
- Chinese 2
- English for Academic Studies 2
- English for Professional Purposes
- GE Elective 3
- Programme Elective 1

YEAR 4

- Cybersecurity Operations
- Machine Learning
- Data Science
- Final Year Project 1
- Modern Web Technology & Development
- Enterprise Network Technologies
- Advanced Topics in Information & Communications Technology
- Final Year Project 2
- GE Elective 4
- Programme Elective 2
- Programme Elective 3

PROGRAMME ELECTIVE MODULE

- Distributed Systems & Computing
- Embedded Systems & Hardware Interface
- Object-Oriented Framework & Design Patterns
- Game Software Technology & Development
- Data Visualisation & Interactive Design
- 2D/3D Graphic Programming
- Big Data & Enterprise Search Engines
- Artificial Intelligence & Expert Systems in Games

GENERAL EDUCATION ELECTIVE MODULES*

- Accounting for Non-accountants
- Advanced Topics in Food Science
- Asian Fashion Retail Marketing
- Basics of Building Information Modelling
- Biographies in World History & Biographical Writing in Chinese
- Buildings & Infrastructures Appreciation
- Business Management in Hong Kong
- Cantonese Linguistics in Hong Kong Popular Culture
- Chinese as a Foreign Language & Culture
- Corporate Social Responsibility in Action
- Creative Writing in Chinese
- Design for Fun
- Digital 3D Modelling & Printing for Beginners
- Effective Branding & Consumer Behaviour
- Entrepreneurship in Action
- Environment, Development & Sustainability
- Environmental Engineering
- Environmental, Health & Safety Implementation of Commercial & Industrial Project
- Essentials in People Management
- FinTech Fundamentals
- Food & Agriculture
- Food in Daily Life
- From Language to Daily Life: Understanding Hong Kong Cantonese & its Culture
- Gemological Science
- Green & Intelligent Building
- Guangdong Dim Sum Culinary Skills & Culture
- Health & Medical Technology Development in Guangdong-Hong Kong-Macao Greater Bay Area
- Holistic Massage Therapy
- Hong Kong Literature: the Local, the Mainland & the World
- Hong Kong Society: Continuity & Change
- Housing Policy & Management
- Impact of Contemporary Design on Society
- Indoor Environmental Engineering
- Introduction to Aircraft Technology
- Introduction to Concepts of New Engineering Contracts
- Introduction to French Language & Culture
- Introduction to Interpreting Skills (Cantonese-English)
- Introduction to Japanese Language & Culture
- Introduction to Spanish Language & Culture
- Journey to the Exotic World of Microorganisms
- Land Art
- Landscape Appreciation
- Language, Culture & Society
- Literature & Modern China
- Living with Sustainable Materials
- Making Sense of Our World: Selected Topics in Sociology
- Marketing Essentials
- Music Technology, Creativity & Production
- Nutrition & Health
- Personal Financial Management
- Plants & Human Civilisations
- Primary Health Care & Health Promotion
- Principles of Project Finance
- Processing of Chinese Materia Medica
- Project Organisation Techniques
- Renewable Energy & Its Application in Buildings
- Safety & Quality of Consumer Products
- Self-marketing & Personal Branding
- Service Leadership in a New Era
- Stress Management
- The Art & Science of Film
- The Art of Professional Speaking
- The Modern World: History & Culture
- The Tourism Industry in Hong Kong
- Traditional & New Construction Technologies in Mainland China
- Translation in Everyday Life (English-Chinese)
- Understanding Citizenship in the Modern World
- Understanding Hong Kong History & Culture through Heritage
- Urban Greenery & Ecology
- Wellness & Lifestyle Management
- Western Classical Music Appreciation