# Advanced Technology and Computing
## 先進科技及電腦運算

### Preparatory Courses for BSc Computer Science (Machine Learning and Artificial Intelligence) : Numerical Mathematics
Programme Code: IMAT9155

**S** **NEW**

📞 2975 5781

✉ alice.wong@hkuspace.hku.hk

**Background**
With the BSc Computer Science (Machine Learning and Artificial Intelligence), students will be able to apply for a range of technical, problem-solving jobs in a rapidly growing area. Machine learning (ML) provides a means for computer systems to extract useful information from data. These techniques are widely used in the technology industry for a variety of applications, for example, recommending music and products to people, identifying faces in photos and predicting trends in financial markets. Companies and institutions are applying ML and AI (artificial intelligence) to a wide range of problems in business, finance, medicine, education, video games, engineering and science as well as new application areas such as music and other creative work.

**$** HK$4,800          **D** 12 hours

### Preparatory Courses for BSc Computer Science (Machine Learning and Artificial Intelligence) : Web Development
Programme Code: IMAT9156

**S** **NEW**

📞 2975 5781

✉ alice.wong@hkuspace.hku.hk

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**$** HK$4,800          **D** 12 hours

### Preparatory Courses for BSc Computer Science (Machine Learning and Artificial Intelligence): Algorithms and Data Structures I
Programme Code: IMAT9149

**S** **NEW**

📞 2975 5781

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**Background**
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**$** HK$4,800          **D** 12 hours

### Preparatory Courses for BSc Computer Science (Machine Learning and Artificial Intelligence) : Discrete Mathematics
Programme Code: IMAT9149

**S**

📞 2975 5781          ✉ alice.wong@hkuspace.hku.hk

**Background**
With the BSc Computer Science (Machine Learning and Artificial Intelligence), students will be able to apply for a range of technical, problem-solving jobs in a rapidly growing area. Machine learning (ML) provides a means for computer systems to extract useful information from data. These techniques are widely used in the technology industry for a variety of applications, for example, recommending music and products to people, identifying faces in photos and predicting trends in financial markets. Companies and institutions are applying ML and AI (artificial intelligence) to a wide range of problems in business, finance, medicine, education, video games, engineering and science as well as new application areas such as music and other creative work.

**$** HK$4,800          **D** 12 hours

# Cyber Security
## 網絡保安

### BSc (Hons) Cyber Security
Programme Code: IT053D

#### University of Plymouth, UK
Application Code: 2050-IT053D

**NCR[1]**

📞 2587 3223          ✉ bsccis@hkuspace.hku.hk

Cyber security is now widely recognised as an international priority, with hacking, malicious code, and data theft being just three of the many reasons why its vital in the design, development and implementation of today's IT systems. Unlike traditional bachelor degree programme (BSc) in Computer Science, this bachelor degree programme (BSc) in Computer and Information Security delivers a view of security threats and solutions, alongside an essential background in wider IT topics and technology. This is particularly important in light of the national Cyber Security Strategy and the current shortage of related skills in the marketplace.

**R** Applicants should:
1. (a) Hold an Advanced Diploma in Computer and Information Security or a Higher Diploma in Information Technology awarded within the HKU system through HKU SPACE;
   OR
   (b) Hold a IT-related Associate Degree awarded within the HKU system through HKU SPACE or a Higher Diploma or an Associate Degree in IT-related disciplines awarded from other tertiary institutions, recognized by University of Plymouth;
   AND
2. Provide evidence of English proficiency:
   (i) HKDSE English Language at Level 2;
   (ii) HKCEE English Language at Level 2;
   (iii) HKCEE English Language (Syllabus B) at Grade E (Grade C in the case of English Language (Syllabus A));
   (iv) an overall band of 6.0 or above in the IELTS or a score of 500 in the paper-based TOEFL, a score of 173 in the computer-based TOEFL and a score of 4.5 in the Test of Written English.
   * According to University of Plymouth regulation, mature students and applicants with other equivalent qualifications will be considered on a case-by-case basis.

**$** HK$108,000* in four instalments (Year 2: HK$45,000; Year 3: HK$63,000)
* Subject to annual changes
Application Fee: HK$150

**D** 2 years          🌐 English

**135**

See legend on page 026  圖像説明於第 026 頁
**R** Minimum Entry Requirements 基本入學要求（P.015）   **$** Fee 學費   **D** Duration 修業期
🌐 Medium of Instruction 教學語言   **Q** Qualifications Framework 資歷架構   **E** Exemption 豁免   **S** Short Course 短期課程

For more and latest programme information, please visit our website
有關最新課程資訊及詳情，請瀏覽學院網站 **hkuspace.hku.hk**

## Advanced Diploma in Computer and Information Security
### Programme Code: IT051A

### Application Code: 1985-IT051A

CEF Modules 4

📞 2587 3223　　📧 stephanie.ny.leung@hkuspace.hku.hk

Advanced Diploma in Computer and Information Security aims to enhance students comprehension of fundamental concepts, principles and theories in computer and information security which has been spurred by the pervasive use of computer-based applications such as information systems, databases, and computer programming. Students are also given an understanding of computer systems and architecture, access control mechanisms, cryptography algorithms, software security, physical security, security management and risk management as well as computer forensic technology.

**R** Applicants shall:
(a) have gained in the HKDSE Examination Level 2 in 5 subjects, including English Language; or
(b) have gained in the HKALE Grade E in 1 AL or 2 AS subjects, and HKCEE Level 2 in English Language* or equivalent; or

(c) be aged at 21 or above with at least 1 year relevant work experience.
* With effect from 2007, HKU SPACE recognises Grade E previously awarded for English Language (Syllabus B) (Grade C in the case of English Language [Syllabus A]) in the HKCEE as an acceptable alternative to Level 2 in this subject in the HKCEE.

**$** HK$44,000 paid in 3 instalments
Application Fee: HK$150
Note: All fees are subject to change without prior notice

**D** 20 months　　English

**Q** Level 4 (Reg. No.: 16/000264/L4) Validity Period: 07 Apr 2016 - on-going

## 電腦鑑證科技（高中應用學習）證書
### 課程編號：IT048A

📞 3762 0051　　📧 d.chau@hkuspace.hku.hk

本課程旨在為學生提供電腦鑑證科技的基礎知識和技術，學生將會體驗到鑑證人員的角色和責任。透過搜證數碼資訊的原則和理論，學生將了解電腦鑑證相關的社會和道德問題。

**$** HK$15,200　　**D** 2年

**Q** 資歷架構級別：3 資歷名冊登記號碼：15/000860/L3
資歷名冊登記有效期：2015年3月31日 - 2025年12月31日

## MSc Internet of Things
### Programme Code: IT084A

### Ulster University, UK
### Application Code: 2045-IT084A

NCR[1]

📞 2587 3234　　📧 sw2.chan@hkuspace.hku.hk

The programme aims to prepare students for both an industrial career with skills in the fields of networks, sensor technologies, pervasive computing, embedded systems, signal processing, security, statistical analysis and data analytics in addition to providing a relevant platform to embark on further research study. Students will also be able to apply the acquired skills in the development of Internet of Things (IoT) systems and applications. Students will be introduced all the core taught material and understand a range of topics and skills associated with the creation, evaluation and deployment of IoT systems and applications.

**R** Applicants shall:
(a) (i) hold a degree with at least 2ii Honours division in computing, engineering or cognate area; OR
(ii) hold an equivalent qualification such as Graduate Diploma, Graduate Certificate, Postgraduate Certificate or Postgraduate Diploma in the subject areas of computing, engineering or related discipline.
AND
(b) provide evidence of competence in written and spoken English, such as
(i) The honours degree (or equivalent) used as the basis for admission was taught and assessed in English; OR
(ii) HKDSE English Language at Level 4 or above; OR
(iii) HKALE Use of English at Grade D or above; OR
(iv) HKASL Use of English at Grade D or above; OR
(v) HKCEE English Language at Level 3 or above; OR
(vi) an overall band of 6.0 with no subtests lower than 5.5 in the IELTS.

**$** HK$120,000 paid in 4 instalments
(subject to annual revision without prior notice)
Application Fee: HK$150

**D** 2 years　　English

## Advanced Diploma in Big Data Analytics and Applications
### Programme Code: IT057A

### Application Code: 2045-IT057A

CEF Modules 4

📞 2587 3256　　📧 katrina.hk.knip@hkuspace.hku.hk

This programme is designed to help students develop basic skills in big data analytics. It provides students with the opportunity to gain in-depth knowledge and critical understanding of a range of issues and concepts in Big Data Analytics.

**R** Applicants shall
- have gained in the HKDSE Examination Level 2 in 5 subjects, including English Language; OR
- have gained in the HKALE Grade E in 1 AL or 2AS subjects, and HKCEE Level 2 in English Language* or equivalent

**$** HK$52,000 (to be paid in 2 instalments)
Application Fee: HK$150

**D** 1 year　　English

**Q** Level 4 (Reg. No.: 17/000309/L4) Validity Period: 07 Apr 2017 - on-going

## Big Data and Machine Learning in Real Life Applications: An Understanding
### Programme Code: IMAT9119

**S**

### Application Code: 2055-1685NW

📞 2587 3228　　📧 sw.lee21@hkuspace.hku.hk

The programme is designed to help students in developing skills and understanding of the real life applications of big data and machine learning. The programme involves introducing students to the key concepts of big data and machine learning as well as applying those concepts into different industries.

**$** HK$2,680　　**D** 5 weeks

## 人工智能與機械人（高中應用學習）證書
### 課程編號：IT088A

📞 3762 0831　　📧 cherry.hung@hkuspace.hku.hk

本課程旨在向學生介紹人工智能的概念和機器人技術發展，並通過相關的簡單原型設計與應用，提升他們對新興技術發展的認知。課程內容包括機器人的基礎，由設計到驅動；人工智能編程，其應用和社會問題；以及自動化和系統集成。該課程從而幫助他們進一步修讀相關學科及從事相關行業做好準備。

**R** 申請人必須為修讀課程發展議會建議的高中課程的中四學生。

**D** 2年　　粵語

**Q** 資歷架構級別：3 資歷名冊登記號碼：21/001428/L3
資歷名冊登記有效期：2022年1月1日 - 2026年12月31日