

# Executive Diploma in Financial Analytics

## 行政人員文憑《金融數據分析》

This programme aims to provide students with the knowledge to investigate financial data which influences finance and investment decisions. Computer coding using Python will be discussed to handle data, build models and perform financial analysis quantitatively. The programme covers the applications of AI, Machine Learning and computerized algorithms to analyze trends and predict financial data.

### Module 1 : Python for Financial Analytics (30 hours)

On completion of the module, students should be able to

- ✓ use computer programs to handle financial data and perform financial analytics
- ✓ apply mathematical and statistical methods to solve finance and investment problems
- ✓ examine applications of financial modelling and simulations

### Module 2 : Machine Learning and Algorithmic Trading (30 hours)

On completion of the module, students should be able to

- ✓ describe the development of AI and machine learning
- ✓ examine algorithms and models for machine learning and algorithmic trading
- ✓ analyze data and trends for financial analytics
- ✓ apply investment strategies and formulate investment decision

#### Programme Structure

Executive Diploma will be conferred to candidates who have achieved at least 70% attendance as well as attain pass grades of the programme.

Students completing Module 1 can exit the programme with the intermediate award, Executive Certificate in Financial Analytics.

#### Course Fee

\$8,000 per module; \$16,000 for whole programme

#### Entry Requirement

Applicants shall hold:

- (a) a bachelor's degree awarded by a recognized University or equivalent; or
- (b) an Associate Degree/ a Higher Diploma or equivalent, and have at least 2 years of relevant work experience.

Applicants with qualifications in quantitative areas (e.g., mathematics, engineering, statistics, computer science, economics, finance ) are preferred.

Those with other qualifications and substantial senior level work experience will be considered on individual merit.

#### Programme Delivery

Language: English

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### Module 1: Python for Financial Analytics (30 hours)

- ✧ Introduction to Python programming
- ✧ Mathematics and Statistics for Finance Analytics
- ✧ Applications of Financial Analytics for Modelling and Simulation

### Module 2: Machine Learning and Algorithmic Trading (30 hours)

- ✧ AI and Machine Learning
- ✧ Learning Algorithms and Models
- ✧ Algorithmic Trading

Venue : HK Island Campus

#### Application Procedure

1. Apply via online application system
2. Submit the following to enrolment centres
  - Application form
  - HKID copy
  - Application fee HK\$150 (non-refundable)
  - Copy of academic/ professional qualification

#### Programme Enquiries

Telephone: 2867 8331

Fax: 2861 0278

Email: [finedec@hkuspace.hku.hk](mailto:finedec@hkuspace.hku.hk)

Website: <http://hkuspace.hku.hk/>

(Search words: EP148)



#### Application Deadline

7 days before each module start date

## Enrolment Centres

### Admiralty Learning Centre [ADC]

3/F, Admiralty Centre,  
18 Harcourt Road, Hong Kong  
(Exit A, Admiralty MTR Station)  
3761 1111

### Fortress Tower Learning Centre [FTC]

14/F, Fortress Tower, 250 King's  
Road., North Point, Hong Kong  
(Exit B, Fortress Hill MTR Station)  
3762 0888

### HPSHCC Campus [HPSHCC]

1/F, HPSHCC Campus,  
66 Leighton Road,  
Causeway Bay, Hong Kong  
3923 7171

### Island East Campus [IEC]

2/F, 494 King's Road,  
North Point, Hong Kong  
(Exit B3, North Point MTR Station)  
3762 0000

### HKU Campus [HKUC]

3/F, T.T.Tsui Bldg.  
The University of Hong Kong  
Pokfulam Road, Hong Kong  
2975 5680

### Kowloon East Campus [KEC]

1/F, 28 Wang Hoi Road,  
Kowloon Bay, Kowloon  
(Exit B, Kowloon Bay MTR Station)  
3762 2222