

PROGRAMME CODE

63027

NORMAL DURATION

1.5 years (Full-time*)
3 years (Part-time)

* Non-local applicants must be registered as full-time students.

CREDIT

REQUIREMENTS

30 credits

TYPE OF FUNDING

Self-financed

MODE OF STUDY

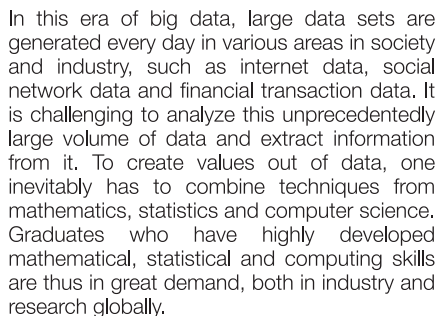
Mixed-mode

INTAKE NUMBER

50

MSc in Data Science and Analytics

數據科學及分析理學碩士學位



Characteristics

Data Science and Analytics concerns the use of mathematical, statistical and computing techniques to extract useful information out of large-scale data and make decision out of it. It is widely recognized that Statistics, Optimization methods and Computer Science form the three pillars for modern Data Science. This programme is designed to provide a balanced treatment on these three pillars, with an aim of grooming future data analysts.



- To nurture graduates with modern data science skills that cut across core disciplines of mathematics, statistics and computer science;
- To develop students' analytical and critical thinking, as well as problem-solving skills, which will enable them to pursue careers as data analysts in a broad range of industries e.g., finance, IT, telecommunication

Course Structures

- ☞ 6 compulsory subjects (18 credits), and 4 elective subjects (12 credits), OR
- ☞ 6 compulsory subjects (18 credits), 1 elective subject (3 credits) and a dissertation (9 credits)



$$\int \frac{1}{1+x^2} dx = \arctan x + C$$

Entrance Requirements

- ✎ Bachelor's degree with honours in mathematics, statistics, computer science, IT, engineering and science, or the equivalent
- ✎ Applicants with a Bachelor's degree in other disciplines and an adequate background in mathematics or IT will also be considered

English requirements

For applicants who are not native English speakers and their Bachelor's degree or equivalent qualification is awarded by institutions where the medium of instruction is not English, they are required to obtain one of the following to ensure that our admittees have reached a compatible English language standard:

- ✎ A TOEFL score of 550 or above for the paper-based test; OR a TOEFL score of 80 or above for the Internet-based test; OR
- ✎ An overall Band Score of at least 6 in the International English Language Testing System (IELTS).

Individual cases will be considered on their own merit by the department. Applicants may be required to attend interviews or tests to further demonstrate their language proficiency.

Career Prospect

This programme aims at producing graduates with an expertise that cuts across core disciplines of mathematics, statistics and computer science. It develops students' analytical and critical thinking, as well as problem-solving skills. This will enable the students to pursue careers as data analysts in various industries such as finance and information technology.

Important : The leaflet was compiled in August 2020. Applicants are advised to visit Academic Registry website www.polyu.edu.hk/study for the latest information.



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