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[**Gifted Programme**]

Data Science Workshop (Level I)

Data Mining and Drones in STEM Education

Prof Yu Leung Ho Philip, Mr Yeung Chung Yiu Richard and other instructors
Department of Mathematics and Information Technology
The Education University of Hong Kong



Application Deadline

**20 April 2026
12:00 noon**

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. acquire the key concepts of data mining and drone technology.
2. apply data mining techniques to solve real-life problems.
3. explain quadcopter flight principles through scientific inquiry and experimentation.
4. develop programmed navigation skills by applying geometry and trigonometry concepts.
5. discuss ethical issues in data science exploration and application.

Result Release

20 April 2026

◆ Gifted Programme Introduction

Have you ever wondered how Netflix recommend your next show or how drones inspect infrastructure and locate missing persons at night? That is the power of Data Mining and Drone Technology, a crucial skill that drives innovation across all industries.

In this workshop jointly organized by HKAGE and the Department of Mathematics and Information Technology (MIT) at the Education University of Hong Kong (EdUHK), you will learn about data mining techniques and drone technology in STEM Education. You will be taken on the step-by-step journey of the data mining and drones in STEM education by a series of hands-on STEM activities designed by the postgraduate students at EdUHK. You will be involved in two STEM lessons that apply data mining strategies to solve real-world issues. You will also engage in STEM learning through challenging scientific inquiry activities that build understanding of quadcopter flight principles and develop skills in programmed navigation.

The workshop is under collaboration with The Education University of Hong Kong.

◆ Schedule

Session	Date	Time	Venue
1	2 May 2026 (Saturday)	10:30 a.m. – 12:30 p.m.	D3-LP-11 (Block D3 LP) The Education University of Hong Kong
2		2:00 p.m. – 4:00 p.m.	D4-LP-02 (Block D4 LP) The Education University of Hong Kong

◆ Suitable for

- S3 – S6 HKAGE student members in the 2025/26 school year.
- Class size: 40
- Student members would be selected randomly by the computer system. The decision of HKAGE on the result of the selection should be final.

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

English with English handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended ALL sessions; AND
- completed all the assignments with satisfactory performance