



MATHS IGNITION- COORDINATE GEOMETRY (E1IMO005C)

Introduction	<p>Maths Ignition is an introductory programme. It is designed as a series of courses on different topics and is developed as a bridging programme to the 'IMO Training' programme.</p> <p>'Maths Ignition-Coordinate Geometry' is the fifth course of the series. It aims to broaden students' knowledge in coordinate geometry on the basis of junior secondary mathematics curriculum through exploration and investigation approach. Students who have completed 2 out of 5 courses in Math Ignition series might be considered for direct admission to the 'Introduction to Olympiad Mathematics 2021 (Phase I)' (E1IMO008C), an intermediate-level programme offered by IMO Hong Kong Committee.</p> <p>This programme is co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)</p>
Programme Type / Level	Introductory Course in Mathematical Olympiad (Token-required)
Instructor(s)	Dr Law Ka Ho
Pre-requisites	<p>Students should know:</p> <ol style="list-style-type: none">1. Cartesian coordinate systems2. Distance and slope between two points3. Basic ideas on equations of straight lines
Target Participants	<ul style="list-style-type: none">➤ S1 – S3 HKAGE student members➤ Class size: 30➤ All applicants MUST attend the Aptitude Test held in HKAGE on 21 Nov 2020. <p>* Not for students who have enrolled in</p> <ol style="list-style-type: none">1. CGMO Training (Phase I) (E1IMO007C) or2. Introduction to Olympiad Mathematics (Phase I) (E1IMO008C) or3. Any phase of International Mathematics Olympiad (IMO) Training before. <p>This programme is same as "Introductory Course in Mathematical Olympiad: Maths Ignition-Coordinate Geometry (MATS1115)" in 19/20 school year.</p>
Medium of Instruction	Cantonese with English handouts
Certificate	<p>E-Certificate will be awarded to participants who have:</p> <ul style="list-style-type: none">❖ Attended at least 3 sessions AND❖ Satisfactory performance in the end-of-course test.
Intended Learning Outcomes	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none">1. Broaden their mathematical knowledge in the topic of Coordinate Geometry on the basis of junior secondary mathematics curriculum;2. Strengthen their problem solving and higher-order thinking skills;3. Learn more about the scope of International Mathematical Olympiad Training.

Aptitude Test

Students who wish to apply for this programme must take a general aptitude test on **21 Nov 2020 (1:30 p.m. – 3:30 p.m. or 4:00 p.m. – 6:00 p.m.)**.

This general aptitude test consists of 100 multiple choice questions which covers a wide range of topics in mathematics. The purpose of the test is to figure out the applicant's knowledge in different fields of mathematics in order to choose the most suitable students for different programmes. Neither under-qualified nor over-qualified students will be admitted.

The next aptitude test is scheduled on **20 Feb 2021**. The result of an aptitude test will be valid for 1 year. If a student takes the test more than once, the latest result will prevail. The following table lists the programmes for which the results of this general aptitude test will apply:

Programme Date	Code	Programme Name	Aptitude test valid
			21 Nov 2020
Feb 2021	E1IMO005C	Maths Ignition: Coordinate Geometry	√
Mar 2021	E1IMO007C	CGMO Training 2021 (Phase I)	√
Mar 2021	E1IMO008C	Introduction to Olympiad Mathematics 2021 (Phase I)	√
Jul 2021	E1IMO001C	Maths Ignition: Combinatorics	√
Aug 2021	E1IMO002C	Maths Ignition: Geometry	√
Aug 2021	E2MAT001C	Polynomials	√
Sep 2021	E1IMO003C	Maths Ignition: Number Theory	√
Nov 2021	E1IMO004C	Maths Ignition: Algebra	√
Nov 2021	E2MAT005C	Introduction to Financial Mathematics	√

Remarks:

- 1. All aptitude tests will only be arranged on the designated dates. No make-up test will be arranged.**
- 2. No Calculator is allowed.**
- 3. Please bring along with your Identification Card, e.g. HKID, student ID.**
- 4. Please arrive at the venue 15 minutes prior to the Aptitude Test begins.**

If students who have selected to join the aptitude test are absent without any reasons and prior notification provided, it will result in a lower priority in joining the aptitude test next time when they apply.

Application Deadline

2 Nov 2020 12:00 n.n.

Application Result Release Date

30 Nov 2020

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

Schedule

Session	Date	Time	Venue
Aptitude Test	21 Nov 2020	#1:45p.m. – 3:45 p.m. or 4:00 p.m. – 6:00 p.m.	* Welkin Systems Limited (Mongkok)
1	27 Feb 2021	2:00 p.m. – 5:00 p.m.	HKAGE Room 403 Room 204
2	6 Mar		HKAGE Room 403
3	13 Mar		HKAGE Room 403
4	20 Mar		HKAGE Room 105 Online Learning

*[Address: 3/F, Righteous Centre, 585 Nathan Road, Mongkok, Kowloon \(Opposite Sino Centre\)](#)

The registration time is 1:30 pm-1:45 pm or 3:45 pm-4:00 pm, please attend on time to register and log in to the website.

Remarks:

1. For any assessment to be held in the programme, no make-up will be arranged.

Sample Examples for the Programme

1. What is the distance between the straight lines $3x + 4y = 5$ and $3x + 4y = 6$?
2. What is the radius of the circle $x^2 + y^2 - 4x + 6y - 8 = 0$?

Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101 after language selection, press "1".