



International Mathematics Olympiad Training

2021-22 (Phase I) Level I (E3IMO002C)

Introduction

- A comprehensive mathematics programme which covers such as Algebra, Number Theory, Geometry and Combinatorics
- Introduce the basic curriculum of the International Mathematics Olympiad competition
- Broaden student's mathematical knowledge, strengthen their problem solving, higher order and logical thinking skills
- Training consists of 3 Phases: Phase I (Jul – Aug), Phase II (Sep – Dec) and Phase III (Jan – Mar 2022)
- Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 63rd IMO 2022 in Norway

The International Mathematical Olympiad Training programmes are co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)

Programme Type / Level

Advanced Course in Mathematical Olympiad ([Token-required](#))

Instructor(s)

Dr Leung Tat Wing and other trainers

Target Participants

- NON-HKAGE Student members who
- ◆ were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong**
- HKAGE Student members who
- ◆ were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong** *or*
 - ◆ have been a trainee in any phase of International Mathematics Olympiad (IMO) Training *or*
 - ◆ have completed any Phase of CGMO *or*
 - ◆ have completed any Phase of ITOM training with Distinction

Class size: 40

Medium of Instruction

Cantonese with English handouts

Certificate

E-Certificate will be awarded to participants who have:
❖ Attended **at least 10 sessions including the last session**; **AND**
❖ **Satisfactory performance in ALL assessments**

Intended Learning Outcomes

- Upon completion of the programme, participants should be able to:
1. Broaden their mathematical knowledge in a variety of areas on the basis of senior secondary mathematics curriculum;
 2. Strengthen their problem solving and higher-order thinking skills.

Application Deadline

21 Jun 2021
12:00 n.n.

Application Result Release Date

25 Jun 2021

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

Schedule

Session	Date	Time	Topic	Instructor	Venue (HKAGE)
1	13 Jul	2:00 p.m. – 5:00 p.m.	Introduction to IMO	T W Leung	Room 403
2	15 Jul		Combinatorics I	K H Law	
3	17 Jul		Geometry I	K K Kwok	
4	20 Jul		Combinatorics II	K H Law	
5	22 Jul		Combinatorics III	K H Law	
6	24 Jul		Geometry II	K K Kwok	
7	27 Jul		Geometry III	K K Kwok	
8	29 Jul		Basic Algebra I	T W Leung	
9	31 Jul		Basic Algebra II	T W Leung	
10	3 Aug		Number Theory I	L T Chan	
11	5 Aug		Number Theory II	L T Chan	
12	7 Aug		Number Theory III	L T Chan	
13	14 Aug		Aug Test	T W Leung	Room 105

Remarks:

Students **MUST ATTEND** the test held on **14 Aug**. No make-up test will be arranged.

Enquiries

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