



S3IM0007C

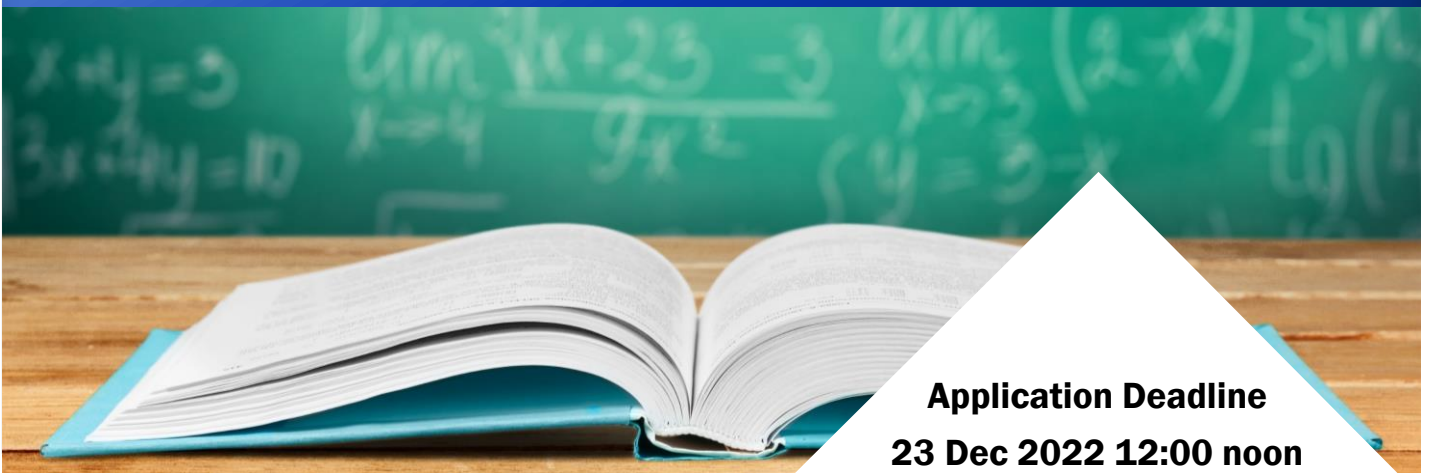
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Advanced Course in  
Mathematical Olympiad

# International Mathematics Olympiad Training 2022-23 (Phase III) Level 2

Dr Leung Tat Wing and other trainers

English version only 只供英文版



**Application Deadline**  
**23 Dec 2022 12:00 noon**

**Result Release**  
**29 Dec 2022**

## **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. learn more about the scope of International Mathematical Olympiad Training;
3. strengthen their problem solving and higher-order thinking skills.



## ◆ 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 – Sep), Phase II (Sep – Dec) and Phase III (Jan – Mar 2023)
- Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 64<sup>th</sup> IMO 2023

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

## ◆ Target Participants

NON-HKAGE Student members who

- were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong and**
- have been a **trainee in any phase of International Mathematics Olympiad (IMO) Training** in school year 2021/22

HKAGE Student members who

- were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong and**
- have been a **trainee in any phase of International Mathematics Olympiad (IMO) Training** in school year 2021/22

Class size: 30

This programme is the same as E3IM0005C in the school year 2021/22

## ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended **at least 7 sessions**; and
- completed all the assignments with satisfactory performance

## ◆ Medium of Instruction

Cantonese with English Handouts



## ◆ Schedule

Session	Date	Time	Venue
1	14 Jan 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
2	28 Jan 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
3	4 Feb 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
4	11 Feb 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
5	18 Feb 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
6	25 Feb 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
7	4 Mar 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
8	11 Mar 2023 (Sat)	14:00 – 17:00	Room 303, HKAGE
9	14 Mar 2023 (Tue)	09:00 – 13:00	Room 105, HKAGE

Remarks:

- Students **MUST ATTEND** the APMP test held on **14 Mar 2023**. No make-up test will be arranged.





## ◆ Appendix - IMO-related Programmes

- IMO-related programmes is a series of programmes that provide International Mathematics Olympiad (IMO) related training. It aims to equip students with the mathematics knowledge and curriculum of IMO, problem solving skills, and high-order thinking skills progressively.
- The programmes are divided into three levels: Introductory, Intermediate, and Advanced level.
- There are different enrollment methods, e.g. aptitude test. For details, please refer to each programme's poster

### Introductory Level

#### Maths Ignition (MI) Programmes

- For S1-S3 HKAGE student members
- Introductory training in Mathematical Olympiad by topics
- Application for five MI programmes will be open in Apr, Jul & Oct each year
- Enroll through aptitude test

### Introductory to Intermediate Level

#### Introduction to Olympiad Mathematics (ITOM)

- For S1-S6 HKAGE student members
- Two phases of training
- Application will be open in Jan each year
- Enroll through aptitude test
- Students who have completed at least 2 MI programmes could enroll directly

### Introductory to Advanced Level

#### China Girls Mathematics Olympiad (CGMO) Trainings

- For S1-S6 HKAGE female HKAGE student members
- Three phases of training
- Application will be open in Jan each year
- Enroll through aptitude test
- CGMO HK Team members will be selected based on their performance in the trainings

### Advanced Level

#### International Mathematics Olympiad (IMO) Trainings

- For all awardees of IMO Preliminary Selection Contest - Hong Kong; OR students who got the certificate of distinction in any phases of ITOM training; OR students who have completed any phases of CGMO training
- Three phases of training
- IMO HK Team members will be selected based on their performance in the trainings and IMO Preliminary Selection Contest - Hong Kong

\*Detail flowchart and timeline, please refer to next page.