



S3IM0004C

(Token- required)

Advanced Course in
Mathematical Olympiad

International Mathematics Olympiad Training 2022-23 (Phase II) Level 1

Dr Leung Tat Wing and other trainers

English version only 只供英文版



Application Deadline
5 Sep 2022 12:00 noon

Result Release
8 Sep 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 64th 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**

HKAGE Student members who

- were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong** **or**
- have completed **any Phase of CGMO** **or**
- have completed **any Phase of ITOM training with Distinction**

Class size: 50

This programme is the same as E3IM0004C in the school year 2021/22

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended **at least 11 sessions**; and
- completed all the assignments with satisfactory performance

◆ Medium of Instruction

Cantonese with English Handouts



◆ Schedule

Session	Date	Time	Venue
1	17 Sep		Room 303, HKAGE
2	24 Sep	2:00 p.m. – 5:00 p.m.	Room 303, HKAGE
3	8 Oct		Room 303, HKAGE
4	#14 Oct	12:00 n.n. – 5:00 p.m.	Room 105, HKAGE
5	15 Oct		Room 303, HKAGE
6	*22 Oct		Room 105, HKAGE
7	29 Oct		Room 303, HKAGE
8	5 Nov		Room 303, HKAGE
9	12 Nov	2:00 p.m. – 5:00 p.m.	Room 303, HKAGE
10	19 Nov		Room 303, HKAGE
11	26 Nov		Room 303, HKAGE
12	*3 Dec		Room 105, HKAGE
13	10 Dec		Room 303, HKAGE
14	17 Dec		Room 303, HKAGE

Remarks:

- Students **MUST ATTEND** the test held on **22 Oct 2022 & 3 Dec 2022**. No make-up test will be arranged.
- Students are encouraged to participate in the Iranian Geometry Olympiad held on 14 Oct 2022.





◆ 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.