



International Mathematics Olympiad Training

2018-19 (Phase III) Level I (MATS2133)

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 (July – August), Phase II (Sept – Dec) and Phase III (Jan – Mar 2019)
- Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 60th IMO 2019 held in United Kingdom

Programme

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

Type / Level

Instructor(s)

Dr. Leung Tat Wing and other trainers

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 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: 25

Medium of Instruction



Cantonese with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **at least 6 sessions 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

24 Dec 2018

Application Result Release Date

31 Dec 2018

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	12 Jan 2019	2:00 pm – 5:00 pm	Problem session	T W Leung	Room 403
2	19 Jan		Harder Inequalities	C M Hung	
3	26 Jan		Geometry (Inversion)	K K Kwok	
4	2 Feb		Miscellaneous Algebra	Law Ka Ho	
5	16 Feb		Number Theory (Quadratic reciprocity)	Chan Long Tin	
6	23 Feb		Functional Equations	K K Kwok	
7	2 Mar		Graph Theory	C M Hung	
8	12 Mar	9:00 am – 1:00 pm	APMO	T W Leung	Room 105

Remarks:

Students **MUST ATTEND** the **Asian Pacific Mathematics Olympiad (APMO)** held on **12 Mar 2019**. No make-up test will be arranged.

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".