

# International Mathematics Olympiad Training

## 2020-21 (Phase II) Level 2 (E3IMO005C)

- 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 2021)
  - Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 62<sup>nd</sup> IMO 2021

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: 20

**Medium of Instruction**  
Cantonese with English handouts

**Certificate**

**E-Certificate** will be awarded to participants who have:

- ❖ Attended **at least 11 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** **31 Aug 2020**  
**12:00 n.n.**

**Application Result Release Date** **4 Sep 2020**

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

Session	Date	Time	Topic	Instructor	Venue HKAGE
1	19 Sep	2:00 p.m. – 5:00 p.m.	Olympiad Geometry: Radical Axes	Mandy Kwok	204
2	26 Sep		Olympiad Geometry: Centres of a Triangle	Samuel Lee	
3	3 Oct		Olympiad Geometry: Mixtilinear Incircles/Excircles	Mandy Kwok	
4	10 Oct		Olympiad Algebra: Inequalities (combinatorial and analytic)	T W Ching	
5	17 Oct		<b>Aug Test</b> (Postponed till now)	T W Ching	
6	24 Oct		Olympiad Algebra: Recursion, Induction, etc. AE Support 1: Overcome Failure 1 (F1IMO002W)	SHEREMETA Daniel Weili	
7	30 Oct	12:00 n.n. – 4:30 p.m.	<b>Iranian Geometry Olympiad Competition</b>	T W Leung	105
8	31 Oct		<b>Oct Test</b>	T W Ching	
9	7 Nov		Olympiad Algebra: Introduction to Groups (1)	SHEREMETA Daniel Weili	
10	14 Nov		Olympiad Algebra: Introduction to Groups (2) AE Support 2: Overcome Failure 2 (F1IMO002W)	SHEREMETA Daniel Weili	204
11	21 Nov	2:00 p.m. – 5:00 p.m.	Olympiad Combinatorics: Algebraic Combinatorics (1)	Samuel Lee	
12	28 Nov		Olympiad Combinatorics: Algebraic Combinatorics (2)	L T Chan	
13	5 Dec		<b>CHKMO</b>	T W Leung	105
14	12 Dec		Olympiad Combinatorics: Graph Theory and Number Theory	Samuel Lee	
15	19 Dec		Olympiad Geometry: 3D Geometry (1) AE Support 3: Overcome Failure 3 (F1IMO002W)	T W Ching	204

Remarks:

- Students **MUST ATTEND** the test held on **17 Oct, 30 Oct, 31 Oct and 5 Dec**. No make-up test will be arranged.
- The topics and instructors are subject to change without prior notice.

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

Enquiries