

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 62nd 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		Aug Test (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.	Iranian Geometry Olympiad Competition	T W Leung	105
8	31 Oct	2:00 p.m. – 5:00 p.m.	Oct Test	T W Ching	204
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	
11	21 Nov	2:00 p.m. – 5:00 p.m.	Olympiad Combinatorics: Algebraic Combinatorics (1)	Samuel Lee	204
12	28 Nov		Olympiad Combinatorics: Algebraic Combinatorics (2)	L T Chan	
13	5 Dec		CHKMO	T W Leung	105
14	12 Dec		Olympiad Combinatorics: Graph Theory and Number Theory	Samuel Lee	204
15	19 Dec		Olympiad Geometry: 3D Geometry (1) AE Support 3: Overcome Failure 3 (F1IMO002W)	T W Ching	204 Online Teaching

Remarks:

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

Enquiries

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