

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 | | Olympiad Combinatorics: Algebraic Combinatorics (1) | Arvin Leung | |
| 12 | 28 Nov | | Olympiad Combinatorics: Algebraic Combinatorics (2) | Arvin Leung | |
| 13 | 5 Dec | 2:00 p.m. – 5:00 p.m. | 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 | |

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.

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

Enquiries