



MATHS IGNITION : NUMBER THEORY

(E1IMO003C)

Introduction

Maths Ignition is an introductory programme. It is designed as a series of courses on different topics and is developed as a bridging programme to the 'IMO Training' programme.

'Maths Ignition : Number Theory' is the third course of the series. It aims to broaden students' knowledge in number theory on the basis of junior secondary mathematics curriculum through exploration and investigation approach. Students who have completed 2 out of 5 courses in Math Ignition series might be considered for direct admission to the 'Introduction to Olympiad Mathematics 2021 (Phase I)' (E1IMO008C), an intermediate-level programme offered by IMO Hong Kong Committee.

This programme is co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)

Programme Type / Level

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

Instructor(s)

Dr Law Ka Ho

Pre-requisites

Students should have the basic knowledge in

1. Prime factorisation of positive integers;
2. Basic properties of and tests for the divisibility of integers.

Target Participants



- S1 – S3 HKAGE student members
- Class size: 30

All applicants **MUST** submit the "Screening Form" **no later than 24 Aug 2020 (Mon) at 12 noon**

*** Not for students who have enrolled in**

1. CGMO Training (Phase I) (E1IMO007C) or
2. Introduction to Olympiad Mathematics (Phase I) (E1IMO008C) or
3. Any phase of International Mathematics Olympiad (IMO) Training before.

Medium of Instruction



Cantonese with English handouts

Certificate



E-Certificate will be awarded to participants who have:

- ❖ Attended **at least 3 sessions AND**
- ❖ Satisfactory performance in the end-of-course test.

Intended Learning Outcomes



Upon completion of the programme, participants should be able to:

1. broaden their mathematical knowledge in the topic of number theory on the basis of junior secondary mathematics curriculum;
2. strengthen their problem solving and higher-order thinking skills;
3. learn more about the scope of International Mathematical Olympiad Training.

Application Deadline

17 Aug 2020 12:00 n.n.

Application Result
Release Date

28 Aug 2020

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

Schedule



Session	Date	Time	Venue
Aptitude Test [Cancelled]	22 Aug 2020	1:30 p.m. – 3:30 p.m. or 4:00 p.m. – 6:00 p.m.	Computer Room, 1/F, Hong Kong Productivity Council
Submission Deadline of “Screening Form”	24 Aug	12:00 n.n.	---
1	5 Sep	2:00 p.m. – 5:00 p.m.	Online Learning
2	12 Sep		
3	19 Sep		Online Learning HKAGE Room 203 HKAGE Room 403
4	26 Sep		Online Learning HKAGE Room 403

Remarks:

1. “Screening Form” will be sent to students concerned in the morning of 21 Aug (Fri) through email. Please submit the completed Form no later than 24 Aug (Mon) at 12 noon. Late submission will not be considered.
2. For any assessment to be held in the programme, no make-up will be

Sample Examples for the Programme

1. What is the sum of all factors of 899899?
2. Find all positive integers x and y such that $xy = 4x + 7y$.

Enquiries



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