

Introduction to Olympiad Mathematics 2021 (Phase I) (E1IMO008C)

matn	ematics 2021 (Phase I) (E1IMO008C)			
Introduction	An introductory level comprehensive mathematics programme which covers a wide			
	range of topics Broaden students' mathematical knowledge and strengthen their problem-solving 			
	skills			
	 Students can learn more about the scope of International Mathematical Olympiad Training 			
May Plan	Consists of 2 phases			
	This programme is co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)			
Programme	Intermediate Course in Mathematical Olympiad (Taken required)			
Type / Level	Intermediate Course in Mathematical Olympiad (<u>Token-required</u>)			
Instructor(s)	Dr Ching Tak Wing and other trainers			
	Students should know the basic knowledge of the following:			
Pre-requisites	Quadratic Equations and Functions, Binomial Theorem, Mathematical Induction,			
	Remainder Theorem and Factor Theorem, Arithmetic and Geometric Sequences, Circles			
Target	and Trigonometry S1 – S6 HKAGE student members			
	Class size: 30			
Participants	All applicants MUST attend the Aptitude Test held on 20 Feb 2021.			
	Except for those who have			
	a) completed any 2 out of 5 courses in Maths Ignition series OR			
	b) attended the Aptitude Test held on 21 Nov 2020.			
na sa walaka 19	Remarks: Not for student members who have completed any phase of "International Mathematics Olympiad Training" or "Introduction to Olympiad Mathematics" before			
	Due to the limited seats in computer rooms, students who have attended the Aptitude Test			
	on 21 Nov 2020 would not be allowed to take the test on 20 Feb 2021. Their results on 21			
	Nov 2020 will be used for this programme.			
	Students will be selected randomly in attending the Aptitude Test if the application is			
	over-subscribed.			
	Only selected students could join the Aptitude Test held on 20 Feb 2021.			
	All unselected students, except those with exemption as stated in a) or b), will be regarded			
	as their application of this programme unsuccessful.			
	This programme is the same as Introduction to Olympiad Mathematics 2020 (Phase I) (MATS1151) in 19/20 school year.			
Medium of				
Instruction	Cantonese with English handouts			
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Certificate

E-Certificate will be awarded to participants who have:

- Attended at least 7 sessions AND
- Had Satisfactory performance in all assessments

Intended Learning Outcomes

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

- 1. Broaden mathematical knowledge in a variety of areas on the basis of senior secondary mathematics curriculum;
- 2. Strengthen the problem solving and higher-order thinking skills;
- 3. Learn more about the scope of International Mathematical Olympiad Training.

Aptitude Test

Students who wish to apply for this programme must take a general aptitude test on 20 Feb 2021 (2:00 p.m. – 4:00 p.m.).

This general aptitude test consists of 100 multiple choice questions which covers a wide range of topics in mathematics. The purpose of the test is to figure out the applicant's knowledge in different fields of mathematics in order to choose the most suitable students for different programmes. Neither under-qualified nor over-qualified students will be admitted.

The next aptitude test is tentatively scheduled in May 2021. The result of an aptitude test will be valid for one year. If a student takes the test more than once, the latest result will prevail. The following table lists the programmes for which the results of this general aptitude test will apply

Duo ano mano			Aptitude test valid	
Programme Date	Code	Programme Name	21 Nov 2020	20 Feb 2021
Mar 2021	E1IMO007C	CGMO Training 2021 (Phase I)	$\sqrt{}$	√
Mar 2021	E1IMO008C	Introduction to Olympiad Mathematics 2021 (Phase I)	V	√
Jul 2021	E1IMO001C	Maths Ignition - Combinatorics	$\sqrt{}$	\checkmark
Aug 2021	E1IMO002C	Maths Ignition - Geometry	$\sqrt{}$	\checkmark
Aug 2021	E3MAT001C	Polynomials	V	\checkmark
Sep 2021	E1IMO003C	Maths Ignition - Number Theory	V	\checkmark
Nov 2021	E1IMO004C	Maths Ignition - Algebra	√	√
Feb 2022	E1IMO005C	Maths Ignition - Coordinate Geometry		V

Remarks:

- 1. All aptitude tests will only be arranged on the designated dates. No make-up test will be arranged.
- 2. No Calculator is allowed.
- 3. Please bring along with your Identification Card, e.g. HKID, student ID.
- 4. Please arrive at the venue 15 minutes prior to the Aptitude Test begins.

If students who have selected to join the aptitude test are absent without any

reasons and prior notification provided, it will result in a lower priority in joining the aptitude test next time when they apply.

Application

1 Feb 2021

Application Result

26 Feb 2021

Deadline

12:00 n.n.

Release Date

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

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Session	Date	Time	Venue (HKAGE)	
Antitudo		2:00 p.m. – 4:00 p.m.	Computer Room	
Aptitude Test	20 Feb 2021		1/F	
		4.00 p.m.	HKPC	
1	6 Mar	2:00 p.m. – 5:30 p.m.	Room 105	
2	13 Mar		Room 303	
3	20 Mar		Room 303	
4	27 Mar		Online Teaching	
5	10 Apr		745)	
6	17 Apr		Room 303	
7	24 Apr		ROUIII 303	
8	8 May	FAR		
9 9	15 May		Room 105	

Remarks:

- 1. For any assessment to be held in the programme, no make-up will be arranged.
- 2. HKPC: Hong Kong Productivity Council, 78 Tat Chee Avenue, Kowloon, Hong Kong (MAP)

Sample

Examples

for the Programme

- 1. Does there exist a multiple of 2017 of the form 111...111?
- 2. If a+b+c=10, what is the greatest possible value of ab^2c^3 ?

Enquiries

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