



# Number Systems (E1MAT002C)

<b>Introduction</b>	<p>Would you like to know the relationship between the four cradles of civilization and the numeral system? Would you like to become an expert decoder? Would you like to investigate some mathematical theorems mathematicians are also interested in? Come and explore fascinating mathematics – The Number Theory World!</p> <p>This programme is co-organized with Stewards Pooi Kei Primary School.</p>		
<b>Programme Type / Level</b>	Numbers and Arithmetic Course (Level I) ( <a href="#">Token-required</a> )		
<b>Instructor(s)</b>	Mr. Fung Ka Fai (Mathematics Teacher of Stewards Pooi Kei Primary School)		
<b>Pre-requisite</b>	<p>Students should have the basic knowledge in</p> <ol style="list-style-type: none"><li>1. being able to perform basic arithmetic operations;</li><li>2. understanding the application of divisibility of numbers in daily lives.</li></ol>		
<b>Target Participants</b>	<ul style="list-style-type: none"><li>➤ P5 to P6 HKAGE student members</li><li>➤ Class size: 30</li></ul> <p>* <b>Student members who completed “Numbers and Arithmetic Course (Level I): Exploring Numbers (E1MAT001C)” are suggested to apply.</b></p> <p>* <b>Priority will be given to student members who are awarded Certificate of Distinction or Certificate of Merit in “Numbers and Arithmetic Course (Level I): Exploring Numbers (E1MAT001C)”.</b></p> <p>This programme is same as “Numbers and Arithmetic Course (Level 1): Number Theory 2 (MATP2412)” in 16/17 school year.</p>		
<b>Medium of Instruction</b>	Cantonese with Chinese handouts		
<b>Certificate</b>	<p><b>E-Certificate</b> will be awarded to participants who have:</p> <ul style="list-style-type: none"><li>❖ Attended <b>AT LEAST 3</b> sessions AND</li><li>❖ Completed all the assignments with satisfactory performance.</li></ul>		
<b>Intended Learning Outcomes</b>	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"><li>1. examine the mathematical principle behind everyday phenomenon (e.g. Chinese rod counting);</li><li>2. analyze and solve practical problems by using concepts in number theory such as Odd–even transposition sort, Chinese remainder theorem and theorems related to factors;</li><li>3. synthesize new logical number systems with number theory concepts.</li></ol>		
<b>Screening</b>	<p>Please answer the screening question in the online application form. *The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students’ performance in answering the question. Only students who can demonstrate motivation and the knowledge of Number Theory in the screening questions can be enrolled in the programme.</p>		
<b>Application Deadline</b>	<b>17 May 2021</b> <b>12:00 n.n.</b>	<b>Application Result Release Date</b>	<b>28 May 2021</b>
If student members withdraw from the programme after the Application Deadline, the token will be deducted.			

## Schedule

Session	Date	Time	Venue
1	15 Jul 2021	9:30 a.m. – 12:30 p.m.	Stewards Pooi Kei* Primary School, Rm 412
2	16 Jul		
3	19 Jul		
4	20 Jul		

\* Address : 2 Lok Ha Square, Fo Tan, Shatin ([Map](#))

## Sample Notes

陳老師於年初存入本金於銀行作定期。現每月可收到的銀行利息為被 313 整除的五位數 8\_ \_ \_ \_，找出陳老師可收每月利息的範圍。

## Enquiries

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

MATHEMATICS

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