

Algebra Enrichment 2 (MATP2212)

Introduction Apparently Mona Lisa, nautilus and sunflower bear no relationship to each other, but in fact all of them are related to the Fibonacci Sequence and the Golden Ratio. This course covers three topics in the Number and Algebra dimensions:

1. the patterns of number sequences and the general formulas of the sum to n terms of arithmetic and geometric sequences;
2. the formulation and solution of simultaneous linear equations in two unknowns; and
3. the division algorithm for polynomials, Remainder Theorem and Factor Theorem.

Programme Type / Level Intermediate course in Algebra ([Token-required](#)) (Core Programme)

Instructor(s) Mr. Alfred Yeung Sai Kit

Target Participants

- P4 to P6 HKAGE student members
- Class size: 30

* Priority will be given to student members who are in Mathematics and Sciences domain
 * Priority is given to students who completed Introductory Course in Algebra: Math Magic and Algebra Enrichment

Medium of Instruction  English, with English Notes

Certificate  **Certificate** will be awarded to participants who have:

- ❖ Attended **ALL** sessions AND
- ❖ Completed all the assignments with satisfactory performance

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

1. Develop critical thinking and problem-solving skills through challenging algebraic problems and games;
2. Apply inductive reasoning to observe the patterns of number sequences;
3. Demonstrate problem-solving skills by modeling, representing, analyzing and generalizing simultaneous algebraic equations in a variety of problems;
4. Devise strategies when solving simultaneous algebraic equations and factorizing polynomials problems;
5. Manipulate long division of polynomials by applying division algorithm, Remainder Theorem and Factor Theorem.

Screening  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 basic understanding of algebra in the screening question can be enrolled in the programme.

Application Deadline **12 January, 2015** **Application Result Release Date** **13 January, 2015**

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule



Session	Date	Time	Venue
1	17 Jan	9:30 a.m. – 12:30 p.m.	ELCHK Lutheran Academy Room 206
2	24 Jan		
3	31 Jan		
4	7 Feb		

Enquiries



For enquiries, please contact us at 3940 0179 or 3940 0102.

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