

Organiser:



Service Provider:



Mathematics Impossible 2010

Credit-Bearing Course

“Mathematics Impossible 2010 (MI2010)” is a mathematics training programme for members of “The Hong Kong Academy for Gifted Education (HKAGE)”, which aims to develop thinking, dialectical and problem-solving skills by enhancing participants’ knowledge of basic mathematics and basic algebra. Participants will be granted with 2 HKUST credits (equivalent to HKUST Mathematics Course [MATH 092: Introductory Topics in Mathematical Sciences]) after completion of the programme work with over 85% attendance rate.

MI2010 will be held from 13 March – 12 June 2010 in HKUST campus. Class schedule will be as follows:

Time	Class Date	13/3, 20/3, 27/3, 9/4[^], 10/4, 17/4, 24/4, 1/5[*], 8/5, 15/5, 22/5, 29/5, 5/6, 12/6 (14 sessions in total) [^]Friday (Easter Holiday) [*]The Birthday of the Buddha
2:30pm - 4:00pm		Lecture
4:00pm - 5:30pm		Tutorial (10 sessions) AND General Talk (4 sessions)

Course Curriculum

Part 1 : Basic Algebra	
1. The algebra of polynomials	4. Binomial Theorem and Taylor’s Formula
2. The Chinese Remainder Theorem	5. Continuity of polynomial functions—Strum Theorem and Fundamental Theorem of Algebra
3. Interpolation method: summation formulas and factorization of polynomials with integer coefficients	
Part 2 : Basic Geometry	
1. Ancient Chinese geometry	4. Measurement of Lengths: The fundamental theory of quantitative plane geometry
2. Ancient Greek Geometry: congruence and symmetry	5. Continuity of the space: Non-commeasurable magnitudes
3. Rectilinearity of the space: Euclidean and non-Euclidean Geometries	6. Circle and Trigonometry

Course Information

Fee: Free of Charge

Eligibility: 1. Members of the HKAGE who passed in the screening test;
2. All applicants **MUST** attend the screening test, which will be held on 27 February 2010, from 2:00pm—4:00pm, at HKUST. Please arrive at 1:30pm for registration;
3. Please refer to “Details of Screening Test” announced through the HKAGE’s website (<http://www.hkage.org.hk>) for more information about the test. Should you have any enquiry regarding the screening test, please contact Miss Ivy Chung at 2358-5065;
4. All applicants will be accepted for screening test, **NO** individual acceptance will be announced by HKAGE;
5. This programme is more suitable for S4 or above students.

Medium of

Instruction: Cantonese with Chinese Handouts

Venue: HKUST campus (Exact location to be confirmed)

Quota: 50

Awards: Upon completion of the course with fulfillment of course requirements and over 85% attendance rate, participants will be awarded with a certificate and granted with 2 HKUST credits (MATH 092: Introductory Topics in Mathematical Sciences).

Application Procedure

Interested parties please complete the application form and submit through the following ways **by 23 February 2010 (Tuesday)**.

By Postal : HKAGE-SPS

E326, East Block, Kowloon Tong Education Services Centre,
19 Suffolk Road, Kowloon Tong

By Fax: 2490 4730

Late applications will not be considered.

Result Announcement

Application results and other related message will be announced through the HKAGE’s website (<http://www.hkage.org>) on or before 4 March 2010 (Thursday). Should you have any enquiry, please contact Ms. Kwok (Tel. No: 3698 3502)

