







Introduction to Financial mathematics

(E2MAT005C)

Introduction	<p>Hong Kong is an international financial centre and the finance industry is one of its most important economic pillars. A good background in mathematics is essential to the understanding of how financial markets and products work. This course serves as an introduction to the elements of financial mathematics.</p> <p>The instructor, Dr Law, is currently a lecturer in the Department of Mathematics at HKU. He is also a member of the IMOHKC and an Honorary Curriculum Consultant of the Program for the Gifted and Talented (PGT) of the CUHK.</p>
Programme Type / Level	<p>Across Domains and Interdisciplinary Course (Level 2) (Token-required)</p>
Instructor(s)	<p>Dr Law Ka Ho</p>
Pre-requisites	<p>Students should have the basic knowledge in</p> <ol style="list-style-type: none"> 1. Simple and compound interest 2. Geometric series 3. Basic concepts of financial products
Target Participants	<p> <ul style="list-style-type: none"> ➤ S1 – S6 HKAGE student members ➤ Class size: 30 <p>All applicants MUST submit the "Screening Form" no later than 24 Aug 2020 (Mon) at 12 noon</p> </p>
Medium of Instruction	<p> English with English handouts</p>
Certificate	<p> E-Certificate will be awarded to participants who have:</p> <ul style="list-style-type: none"> ❖ Attended at least 3 sessions AND ❖ Satisfactory performance in the end-of-course test
Intended Learning Outcomes	<p> Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> 1. solve problems related to interest rates under different financing situations; 2. solve problems related to mortgage, annuities and other financial products; 3. compare different financial products by applying the mathematical knowledge learned in the course.

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	7 Nov	9:30 a.m. – 12:30 p.m.	HKAGE Room 403
2	14 Nov		
3	21 Nov		
4	28 Nov		

Remarks:

- “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.**
- For any assessment to be held in the programme, no make-up will be arranged.**

Sample Examples for the Programme

- If \$10000 is deposited into a bank, how much interest could you get after 2 years if the interest rate is 5% per annum and the interest is
 - simple interest?
 - compounded monthly?
 - compounded continuously?
- You borrowed \$10000 from a bank and would like to repay in 36 equal monthly instalments. If the interest rate is 5% per annum and interest is compounded monthly, how much should the monthly repayment be?
- In a bank advertisement it was said that you can get a flat rate of 0.2% per month on a personal loan. What does that mean? What is the actual interest rate per annum?



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

Enquiries