HKU Summer Institute 2022

Undergraduate Programmes

Programme Details	
Programme Code	MATH1011
Programme Title	University Mathematics I
Credit Bearing Programme	6 credits
Programme Description	Calculus is a branch of mathematics that finds wide applications in science, economics and finance, engineering and many other areas. This is a first programme in one-variable calculus.
Programme Outline	▪ Pre-calculus topics (set theory, combinations and permutations, mathematical induction, binomial theorem, exponential, logarithmic and trigonometric functions) ▪ Limits and Differentiation with Applications ▪ Indefinite and Definite Integrals with Applications
Learning Outcomes	On successful completion of this programme, students should be able to:

Programme Learning Outcomes (PLO)	
PLO 1	use the set notations; calculate probabilities; and prove by induction
PLO 2	solve problems involving exponential, logarithmic and trigonometric functions
PLO 3	evaluate limits and derivatives
PLO 4	compute simple definite and indefinite integrals
PLO 5	solve practical problems such as determining maxima and minima; finding area

Study Load	36 contact hours + 40 learning hours
Assessments	▪ Assignments (5%) ▪ Three online tests (45%) ▪ Final examination (50%) No supplementary examination will be offered.
Language of Instruction	English

Class Schedule	
Programme Period	June 27 - July 8, 2022
Class Day & Time	Monday, Tuesday, Wednesday, Thursday & Friday 09:00 - 13:00 (Note: **Online** lectures and tutorials + some pre-recording lectures. All the live lectures and tutorials will be recorded and uploaded on the Moodle after class. There will be online tests and exam.)
Venue	This programme will be conducted **online**.

Application	
Target Students	Non HKU Postgraduate Students, Non HKU Undergraduates
Pre-requisite	Applicants should provide a list of current programmes and past exam result sheets or transcripts.
Remarks	Accommodation: Not Applicable
Online Application	Please visit the **webpage of "MATH1011 University Mathematics I"** for **Online Application**.
Programme Fee	HK$11,600
Early Bird Offer*	Apply on or before February 28, 2022 ▪ 5% discount on programme fee
Discount offered to HKUSI Alumni*	▪ 20% discount of the programme fee
Partnership Discount*	▪ 10% discount on programme fee (HKU Exchange Partners' students)
Discount offered to referral by HKUSI Alumni and HKU members*	▪ 10% discount of the programme fee
Deadline for Application	June 10, 2022

*All discounts are not in conjunction with any other discounts.

Enquiries
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