







Trigonometry (MATS2330)

<p>Introduction</p>	<p>Trigonometry is a branch of mathematics that studies the relationships between the lengths and angles of triangles. It is widely applied in both real life and various branches of advanced mathematics. This course will introduce various topics in trigonometry, particularly those that are essential to the study of calculus.</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>	
<p>Programme Type / Level</p>	<p>Geometry and Topology Course (Level 3) (Token-required)</p>	
<p>Instructor(s)</p>	<p>Dr Law Ka Ho</p>	
<p>Pre-requisites</p>	<p>Students should have the basic knowledge in: Basic properties of the sin, cos and tan functions.</p>	
<p>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 25 May 2020 (Mon) at 12 noon</p>	
<p>Medium of Instruction</p> 	<p>English with English handouts</p>	
<p>Certificate</p> 	<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 	
<p>Intended Learning Outcomes</p> 	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> 1. Describe the meaning of the trigonometric functions (sin, cos, tan, cot, sec, csc) of any angle; 2. Apply the radian measure in solving problems; 3. Sketch the graphs of trigonometric functions; 4. Apply the sine/cosine formula, trigonometric identities and other techniques to solving various geometry problems and trigonometric equations. 	
<p>Application Deadline</p>	<p>18 May 2020 12:00 n.n.</p>	<p>Application Result Release Date 29 May 2020</p>
<p>If student members withdraw from the programme after the Application Deadline, the token will be deducted.</p>		

Schedule



Session	Date	Time	Venue
Aptitude Test [Cancelled]	16 May	1:30 p.m. – 3:30 p.m. or 4:00 p.m. – 6:00 p.m.	Computer Room 1/F, HKPC
Submission Deadline of “Screening Form”	25 May	12:00 n.n.	---
1	4 Aug	9:30 a.m. – 12:30 p.m.	Room 303 Online Teaching
2	7 Aug		
3	11 Aug		
4	14 Aug		

Remarks:

1. “Screening Form” will be sent to students concerned on 22 May (Fri) through email. Please submit the completed Form no later than 25 May (Mon) at 12 noon. Late submission will not be considered.
2. For any assessment to be held in the programme, no make-up will be arranged.

Sample Examples for the Programme

1. What is the range of values of $3\sin x + 4\cos x$?
2. Evaluate $\cos 72^\circ + \cos 144^\circ$ without using a calculator.

Enquiries



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