HKUST Pre-University Program 2026
Name: Exploring STEM Through Sensing Technologies (PREU 2504)
Duration: July 20-24, 2026
Instructor: Prof. Tim WOO & Prof. Man Fung CHEUNG

HKUST Pre-University Program
Undergraduate Recruitment and Admissions Office

		20-Jul	21-Jul	22-Jul	23-Jul	24-Jul
		Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
09:30-11:00	**Topic**	Orientation - Organised by PreU	Introduction to Electrical Circuit Theory	Introduction to Vectors and Their Applications in Robotics	Introduction to Sound Waves and Their Spectra	Group Discussion
11:15-12:45	**Topic**		Laboratory Experiment: Applying Circuit Theory to Light and Temperature Sensing	Laboratory Experiment: Exploring Mecanum Wheel Systems	Laboratory Experiment: Analyzing Sound and Spectrum through building an electronic piano	Exploring Trigonometry in Finger Detection and Face Recognition Algorithms
12:45-14:15	**Lunch**	**Lunch**	**Lunch**	**Lunch**	**Lunch**	**Lunch**
14:15-15:45	**Topic**	Social Activity - USTouch Organised by PreU	Executive Talk	City Excursion (Optional) Organised by PreU	Group Discussion	Leadership Forum & Gala Dinner (Business Attire)
16:00-17:30	**Topic**		Executive Talk / Workshop		Introduction to Image Processing and Color Decomposition	Orgainsed by HKUST PreU

Notes:
This is the preliminary program itinerary, and the final itinerary will be shared two weeks prior to the start of the program.
The content above is subject to change without notice. Students should regularly check the website and their email for any updates.