



# Analyzing Astronomical Data and Build Your Own Star Chart (E1AST003C)

<b>Introduction</b>	This course combines astronomy in natural science, data analytics and coding in engineering and technology, and geometry and coordinate systems in mathematics. Students will be learning more about the stars and constellations in the night sky. They will calculate the locations and plot them in a virtual 360-degree 3D panoramic view. At the end of this course, they will be able to create their own star chart in a Virtual Reality world.
<b>Programme Type / Level</b>	Astronomy I Course (Level I) ( <a href="#">Token-required</a> )
<b>Instructor(s)</b>	Mr. LAU Kam Ming (Smart Kiddo Education Limited)
<b>Pre-requisite</b>	No special prerequisites are needed
<b>Target Participants</b>	<ul style="list-style-type: none"><li>➤ P4 to P6 HKAGE students</li><li>➤ Class size: 30</li></ul>
<b>Medium of Instruction</b>	English with English handouts
<b>Certificate</b>	<b>E-Certificate</b> will be awarded to participants who have: <ul style="list-style-type: none"><li>❖ Attended <b>at least 3 sessions</b>; <b>AND</b></li><li>❖ Completed all the assignments with <b>satisfactory performance</b></li></ul>
<b>Intended Learning Outcomes</b>	Upon completion of the programme, participants should be able to: <ol style="list-style-type: none"><li>1. Describe the sky in astronomical terms, such as lightyear, parsec, magnitude, right ascension, declination, altitude, etc.;</li><li>2. Create a digital star chart by using data analytics and coding skills;</li><li>3. Compare real celestial objects with virtual celestial objects created by the students;</li><li>4. Critically reflect the importance of human space exploration.</li></ol>
<b>Application Procedure</b>	<b><u>This programme is Programmes with No Screening</u></b> <p>There are no screening questions, written test or other screening methods for this type of programmes.</p> <ul style="list-style-type: none"><li>● Student members can select up to 5 programmes from a list of selection. Applicants have to state the priority when submitting the application. (1<sup>st</sup> priority, 2<sup>nd</sup> priority, 3<sup>rd</sup> priority, etc). 1 token is required for each programme (For programme list, please refer to the issue 22 of Gifted Gateway (<a href="#">click here</a>));</li><li>● The application can only be submitted once. After submission of the application, the programme selection and the priority cannot be changed;</li><li>● If a student member removes a programme from the application before the application deadline by withdrawal, the choice priority will remain unchanged. (For example: A student has selected three programmes and removed the programme with the 1<sup>st</sup> priority from the application. The choices of 2<sup>nd</sup> and 3<sup>rd</sup> priority will remain unchanged with no promotion in priority).</li><li>● We will select the students based on the student's choice of priorities and a randomly generated selection by the computer system. If there is time clash between the applied programme and other programmes with offer, HKAGE will consider if the application will be accepted;</li><li>● Student members should avoid applying programmes with time clash;</li><li>● The decision of HKAGE on the result of selection should be final.</li></ul>

Application Deadline **23 Apr 2021, 12:00 n.n.**

Application Result  
Release Date **30 Apr 2021**

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

### Schedule

Session	Date	Time	Venue
1	7 Aug	9:30 a.m. – 12:30 p.m. & 2:00 p.m. – 5:00 p.m.	Zoom Meeting
2			
3	14 Aug		
4			

### Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101 After language selection, press "1".

SCIENCES

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