





賽馬會「知情達意育優才」計劃
Jockey Club "Gifted in Bloom-Harmony in Heart & Mind" Programme

*The Quest for Ultimate Mysteries –
Time, Life and the Fate of Our Universe (JC3C-S081)*

<p>Introduction</p>	<p>How did everything in this universe begin? What is the ultimate fate of the universe? What is time? Are we alone? What is the meaning of it all? Through lectures, stargazing and calculation, this course provides the science knowledge as a framework for students to ponder these big questions.</p>
<p>Programme Type / Level</p>	<p>Astronomy II Course (Level 4) (token-required)</p>
<p>Instructor(s)</p>	<p>Instructors of Galaxy Scientific Group Limited (Galaxy Scientific Group was established in 1996, being the leading organization in the region, on developing different astronomical facilities including observatories, planetariums or related teaching equipment & courses in greater China region & South East Asia.)</p>
<p>Target Participants</p>	<p>  <ul style="list-style-type: none"> ➤ S1 - S6 HKAGE student members ➤ Class size: 35 ➤ Students should be able to make commitment, be responsible to oneself as well as to the world, and willing to discuss, elaborate and present their in-depth thoughts. <p>* First-come-first-served</p> </p>
<p>Medium of Instruction</p>	<p>  English with English handouts </p>
<p>Certificate</p>	<p>  Certificate will be awarded to participants who have: <ul style="list-style-type: none"> ❖ Attended at least 5 sessions; AND ❖ Completed all the assignments with satisfactory performance </p>
<p>Intended Learning Outcomes</p>	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> 1. Set up telescopes and planisphere for night sky observations; 2. make use of digital software to process and analyse star trail pictures; 3. Design a sundial and carry out solar observations in multiple wavelengths; 4. Reflect on the quest for mysteries of the universe and the meaning of life.
<p>Application Deadline</p>	<p>25 November 2019 (12 n.n.) 23 December 2019 (12 n.n.)</p>
<p>If student members withdraw from the programme after the Application Deadline, the token will be deducted.</p>	




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Schedule	Session	Date	Time	Content	Venue
	1	4 Jan 2020 (Sat)	2:00 p.m. - 5:00 p.m.	<ul style="list-style-type: none"> ● The First Black Hole Picture ● Life and Death of Stars ● Calculations on atomic transitions and Doppler effect ● Use of planisphere and introduction to the sky 	Room 26, Buddhist Kok Kwong Secondary School
	2	*4 Jan 2020 (Sat)	6:00 p.m. - 9:00 p.m.	<ul style="list-style-type: none"> ● How to set up telescopes ● Stargazing 	HKAGE/ stargazing site
	3	11 Jan 2020 (Sat)	2:00 p.m. - 5:00 p.m.	<ul style="list-style-type: none"> ● Search for exoplanets and intelligent life in the universe ● Solar observation in multiple wavelengths. Observation of absorption spectrum of the sun. ● From Big Bang to the End of Universe 	Room 26, Buddhist Kok Kwong Secondary School
	4	*11 Jan 2020 (Sat)	6:00 p.m. - 9:00 p.m.	<ul style="list-style-type: none"> ● Stargazing ● Basic astrophotography (if time allows) 	HKAGE/ stargazing site
	5	18 Jan 2020 (Sat)	2:00 p.m. - 5:00 p.m.	<ul style="list-style-type: none"> ● Making of sundial ● Sundial: from Time-Keeping to our Connection with the Universe ● Arrow of Time in Special Relativity 	Room 26, Buddhist Kok Kwong Secondary School
	*6	18 Jan 2020 (Sat)	6:00 p.m. - 9:00 p.m.	<ul style="list-style-type: none"> ● From Making Telescopes to Building Tibet Robotic Observatory: My Personal Quest to the Mysteries of the Universe as an Engineer ● Making and analysing a star trail picture ● Use of equatorial mount; 	HKAGE/ stargazing site

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				introduction to different types of telescopes	
				● Final test	

* The content and venue will be changed due to the inclement weather condition.

Enquiries  For enquiries, please contact us at 3940 0515/ 3940 0512 or ic@hkage.org.hk.

SCIENCES

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