



A4AST001C

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Astronomy Course (Level IV)

Cosmos – An Investigative Study (Phase 1)

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(Galaxy Scientific Group Limited)



Application Deadline
4 Jan 2021 12:00 n.n

Result Release
6 Jan 2022

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. discuss universe at different scales and the lifespan of stars
2. apply knowledge in cosmology and astrophysics, including orbital mechanics and atomic physics
3. examine the radius, diameters, and distances among different orbits



◆ Introduction

The course consists of 3 phases. During phase 1 (A4AST001C), the programme aims to enhance students' knowledge in universe, stars, cosmology, and astrophysics by providing lectures, workshops, practical experiences and Digital Starlab experience. Students will learn about theories of Cosmology and how to measure distance and diameter of different stars. Calculation will be included. They will explore different types of telescopes and mounts too. At the end of all 3 phases, they will be able to conduct a research project on astronomy.

◆ Schedule

Session	Date	Time	Venue
1	8 Jan	2:00 p.m. – 6:00 p.m.	Zoom
2	15 Jan	2:00 p.m. – 6:00 p.m.	Room 203, HKAGE Zoom
3	22 Jan	2:00 p.m. – 5:00 p.m.	Room 403, HKAGE Zoom
*4	22 Jan	6:00 p.m. – 9:00 p.m.	Jockey Club Sai Kung Outdoor Training Camp/ Ma Wan Solar Tower/ Others Postponed
5	29 Jan	2:00 p.m. – 5:00 p.m.	Room 403, HKAGE Zoom
6	12 Feb	2:00 p.m. – 5:00 p.m.	Room 403, HKAGE Zoom

*In this session, we will have stargazing or solar observation activity outside HKAGE. Shuttles bus is arranged for pick-ups between HKAGE and the class venues. Students will be dismissed at HKAGE. Besides, this session maybe cancelled or postponed due to inclement weather. Detailed arrangement will be explained during classes.

◆ Target Participants

- S3 to S6 HKAGE student members only in 2021/22 school year
- Class size: 30

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with English Handouts

◆ Screening

Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of astronomy in the screening question can be enrolled in the programme.

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 5 sessions; and
- completed all the assignments with satisfactory performance