



A4AST003C

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Astronomy Course (Level IV)

Cosmos – An Investigative Study (Phase 3)

Instructor from Galaxy Scientific Group Limited



**Application Deadline
2 Dec 2022 12:00 noon**

**Result Release
7 Dec 2022**

Intended Learning Outcomes

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

1. organise and lead research project on astronomy;
2. collect data for solar or lunar projects with professional equipment;
3. analyse astronomy photos to extract useful/meaningful scientific data;
4. present their projects with confidence and relevant presentation skills.



◆ Introduction

The course consists of 3 phases. During phase 3 (A4AST003C), the programme aims to assist students in collecting and handling astronomic data with different methods. Besides, the programme will help students develop skills in conducting research project on astronomy. Consultation sessions will be arranged during the project period so that students can ask for advice when they face any problems. At the end of phase 3, student will be able to present their outcome on astronomy.

◆ Target Participants

- S3 to S6 HKAGE student members only in 2022/23 school year
- Class size: 15

◆ Pre-requisite

Satisfactory performance in Phase 2 (A4AST002C)

◆ Medium of Instruction

Cantonese with English handouts

◆ Screening

Screening is based on the performance in Phase 2 (A4AST002C).

*The screening is designed to help the applicant understands the course level and the course content. Only students who can demonstrate motivation and the knowledge of astronomy in phase 2 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

During the optional consultation sessions, students can attend the lesson optionally according to their own study needs.



◆ Schedule

Session	Date	Time	Contents	Venue
1	17 Dec (Sat)	2:00 p.m. – 5:00 p.m.	<ul style="list-style-type: none">Related basic skills and knowledge on use of apparatusAstrophotography 1	Room G03, HKAGE (TBC)
2	17 Dec (Sat)	6:00 p.m. – 9:00 p.m.	<ul style="list-style-type: none">Astrophotography 2Analysing astrophotos to extract scientific data	Room 105, HKAGE
3a	19 Dec (Mon)	8:30 p.m. – 10:00 p.m.	15-min interview with each student	Zoom
3b	21 Dec (Wed)	8:30 p.m. – 10:00 p.m.	15-min interview with each student	Zoom
3c	23 Dec (Fri)	8:30 p.m. – 10:00 p.m.	15-min interview with each student	Zoom
*	7 Jan (Sat)	2:00 p.m. – 5:00 p.m.	Optional Practical – Data collection for solar projects/sungazing	Room G05 HKAGE (TBC)/ Outing
*	7 Jan (Sat)	6:00 p.m. – 9:00 p.m.	Optional Practical – Data collection for lunar projects/stargazing (outside HKAGE)	Room 303 HKAGE / Outing
*	6 Feb (Mon)	8:30 p.m. – 10:00 p.m.	Optional Consultation (Data acquisition and analysis)	Zoom
*	8 Feb (Wed)	8:30 p.m. – 10:00 p.m.	Optional Consultation (Data acquisition and analysis)	Zoom
*	13 Feb (Mon)	8:30 p.m. – 10:00 p.m.	Optional Consultation (Preparation for interim presentation)	Zoom
*	15 Feb (Wed)	8:30 p.m. – 10:00 p.m.	Optional Consultation (Preparation for interim presentation)	Zoom
4	18 Feb (Sat)	2:00 p.m. – 5:00 p.m.	Interim Presentation	Room 203, HKAGE
*	13 Mar (Mon)	8:30 p.m. – 10:00 p.m.	Optional Consultation (further research)	Zoom
*	15 Mar (Wed)	8:30 p.m. – 10:00 p.m.	Optional Consultation (further research)	Zoom
*	20 Mar (Mon)	8:30 p.m. – 10:00 p.m.	Optional Consultation (final presentation and report)	Zoom
*	22 Mar (Wed)	8:30 p.m. – 10:00 p.m.	Optional Consultation (final presentation and report)	Zoom
5a	27 Mar (Mon)	8:30 p.m. – 10:00 p.m.	10-min interview with each student	Zoom
5b	29 Mar (Wed)	8:30 p.m. – 10:00 p.m.	10-min interview with each student	Zoom
6	15 Apr (Sat)	2:00 p.m. – 6:00 p.m.	<ul style="list-style-type: none">Final PresentationSubmission of written report	HKAGE (TBC)

* For the optional consultation sessions, students can attend the lesson optionally according to their own study needs.

