



E2AST002C

(Token- required)

Astronomy Course (Level II): New Missions in Solar System 2023-2033

Teachers of Galaxy Scientific Group



Application Deadline
30 Oct 2023 12:00 noon

Result Release
10 Nov 2023

Intended Learning Outcomes

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

1. interpret astronomical observations with laws of physics and mathematics;
2. critically analyse the data collected in a telescope and draw valid conclusions;
3. design simple trajectories of Solar System missions;
4. discuss ethical issues in space exploration.

◆ Introduction

New human footprints on the Moon and Mars, robotic exploration of life beyond Earth in our Solar System the next 10 years will be as exciting as ever in space missions. This course provides a unique combination of learning experiences (hands-on practice of instruments, stargazing, mathematical analysis, planetarium shows, etc.) for students to learn about fascinating aspects of space exploration in our own Solar System.

◆ Schedule

Session	Date	Time	Venue
1	9 Dec	2:00 p.m. – 5:00 p.m.	Room 105, HKAGE
2		6:00 p.m. – 9:00 p.m.	Plover Cove Reservoir, Tai Mei Tuk
3	16 Dec	2:00 p.m. – 5:00 p.m.	Room 105, HKAGE
4		6:00 p.m. – 9:00 p.m.	HKFYG Jockey Club Sai Kung Outdoor Training Camp ^[1]

^[1] Address: DD256, Tai Mong Tsai Road, Sai Kung

Remarks:

- There will be two evening classes where we will visit other outdoor sites for stargazing. The instructor has already arranged a chartered shuttle bus for pick-ups between the Academy and class venues. Evening classes will be dismissed at the Academy. Details will be explained during class.
- The evening stargazing activity classes maybe cancelled or postponed to a later date accordingly due to inclement weather, please watch out for the instructor's arrangements.

◆ Target Participants

- S1 to S3 HKAGE student members in 2023/24 school year
- Class size: 35

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with Chinese Handouts

◆ Screening

Please answer the screening questions in the online application form.

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

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 3 sessions; and
- completed all the assignments with satisfactory performance.