



# Journey To Mars 2025 (E3AST001C)

<b>Introduction</b>	The rise of private space enterprise and new rocket development have made the human mission to Mars closer to reality than ever. This course provides a guide to designing a manned mission to Mars using laws of physics and mathematics. Students can also experience space exploration through experiencing digital planetarium and observed Mars with telescopes if weather permits.																				
<b>Programme Type / Level</b>	Astronomy II Course (Level III) ( <a href="#">Token-required</a> )																				
<b>Instructor(s)</b>	Teachers of Galaxy Scientific Group																				
<b>Pre-requisite</b>	No special prerequisites are needed																				
<b>Target Participants</b>		<ul style="list-style-type: none"> <li>➤ S3 to S6 HKAGE student members in 2020/21 school year</li> <li>➤ Class size: 30</li> <li>➤ Priority will be given to student members who have completed Astronomy I Course (SCIS1031 or SCIS1032)</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. apply the three Kepler's laws of planetary motion;</li> <li>2. design a trajectory for a manned mission to Mars using physics and mathematics;</li> <li>3. explain the latest technological developments in manned mission to Mars;</li> <li>4. set up a telescope and use a planisphere;</li> <li>5. appreciate the beauty of stars and galaxies.</li> </ol>																			
<b>Screening</b>		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 basic knowledge of Astronomy in the screening question can be enrolled in the programme.																			
<b>Application Deadline</b>	17 Aug 2020, 12:00 n.n	<b>Application Result Release Date</b>	28 Aug 2020																		
Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.																					
<b>Schedule</b>		<table border="1" data-bbox="427 1585 1536 1910"> <thead> <tr> <th>Session</th> <th>Date</th> <th>Time</th> <th>Venue</th> </tr> </thead> <tbody> <tr> <td>1</td> <td rowspan="2">24 Oct</td> <td>2:00 p.m. - 5:00 p.m.</td> <td>HKAGE (Classroom to be confirmed)</td> </tr> <tr> <td>2</td> <td>6:00 p.m. - 9:00 p.m.</td> <td>Sai Kung / Tai Po / Tai Mei Tuk /... (TBC)</td> </tr> <tr> <td>3</td> <td rowspan="2">31 Oct</td> <td>2:00 p.m.- 5:00 p.m.</td> <td>Room 105, HKAGE</td> </tr> <tr> <td>4</td> <td>6:00 p.m. - 9:00 p.m.</td> <td>Sai Kung / Tai Po / Tai Mei Tuk /... (TBC)</td> </tr> </tbody> </table>		Session	Date	Time	Venue	1	24 Oct	2:00 p.m. - 5:00 p.m.	HKAGE (Classroom to be confirmed)	2	6:00 p.m. - 9:00 p.m.	Sai Kung / Tai Po / Tai Mei Tuk /... (TBC)	3	31 Oct	2:00 p.m.- 5:00 p.m.	Room 105, HKAGE	4	6:00 p.m. - 9:00 p.m.	Sai Kung / Tai Po / Tai Mei Tuk /... (TBC)
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<b>Remarks:</b> <ul style="list-style-type: none"> <li>• There will be two evening classes where we will visit other external astronomical centers. 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.</li> <li>• The evening stargazing activity class maybe cancelled and postponed to a later date accordingly due to inclement weather, please watch out for the instructor's arrangements.</li> </ul>																					
<b>Enquiries</b>		For enquiries, please contact us at 3940 0101 after language selection, press "1".																			