**KITION ASTRONOMY ACADEMY**

**academic year 2024-2025**

**Time: Mondays 14:50-15:50**

**Venue: IMS Private School**

**Curriculum**

|  |  |  |
| --- | --- | --- |
|  | ***Date*** | ***Theoretical Session*** |
| 1 | 04.11.24 | About astronomy course. Azimuthal system of coordinates. Brightness of luminaries. Computer programs. |
| 2 | 11.11.24 | Stars and asterisms. Celestial coordinates. Sidereal time. Culminations. |
| 3 | 18.11.24 | View of the sky from different parts of the Earth. Telescopes and gravitational observatories, telescope resolution. My first telescope. |
| 4 | 25.11.24 | Composition of the Solar System. Basic movements and aspects of the planets. |
| 5 | 02.12.24 | System Earth - the Moon. |
| 6 | 09.12.24 | Rocky planets. |
| 7 | 16.12.24 | Giant planets. |
| 8 | 13.01.25 | Minor bodies of the Solar System. Cosmogony. |
| 9 | 20.01.25 | The Sun. |
| 10 | 27.01.25 | Solar-terrestrial connections. |
| 11 | 03.02.25 | Distances to stars. Parallax. |
| 12 | 10.02.25 | The Hertzsprung-Russell diagram. |
| 13 | 17.02.25 | Stellar evolution. |
| 14 | 24.02.25 | Variable stars, star remnants. |
| 15 | 03.03.25 | Star systems. |
| 16 | 10.03.25 | Nebulae, Our Galaxy. |
| 17 | 17.03.25 | Extragalactic astronomy. Doppler Effect. |
| 18 | 24.03.25 | Evolution of the Universe. Big Bang. |
| Cyprus Olympiad 29.03.25 | | |
| 19 | 31.03.25 | Active galaxies, evolution of galaxies. |
| 20 | 07.04.25 | Orbits. Lagrange points. |
| 21 | 28.04.25 | Live and Mind in the Universe. |
| 22 | 05.05.25 | Practicum Asteroids. |
| 23 | 12.05.25 | Twilight. |
| 24 | 19.05.25 | Poles and seasons on celestial bodies. |
| 25 | 26.05.25 | Equation of time. Presession. |
| 26 | 02.06.25 | Nutation, aberration. |
| 27 | 09.06.25 | Color Index. Solar evolution. |
| 28 | 16.06.25 | Practicum Messier catalogue. Arms of spiral galaxies. |
| 29 | 23.06.25 | Astronomical phenomena this summer. |