

PLANETARIUM EDUCATION™-K12

M O D U L E S

ORANGE PLANETARIUM: A SCHOOL, THEATRE & CINEMA ALL ROLLED INTO ONE!



Orange Assessments Pvt Ltd

Adding value to 'Education'

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Teaching Astronomy Science through “Planetarium Education™ – K12 Modules”

A planetarium is the most effective teaching aid for astronomy for school students. According to our experience and expertise, we have designed the concept of Planetarium Education™–K12 as a holistic concept. **It is a companion to STEM education (Science, Technology, Engineering and Mathematics education).** “Planetarium Education™–K12” comprises of four modules that are based on the number of planetarium exposures and their support books provided to a student in an academic year and the participation in the OCAS Assessment (Astronomy, popularly known as **NAO/Science/Maths**). It has to be prescribed in the school book-list at the start of each academic year.

A school can choose any one of the following modules for its students.

1. **Quarterly (F-4) Module** provides **four planetarium exposures per academic year** on quarterly basis with support books, quizzes, tests, sky maps/moon calendars and an yearly OCAS Assessment. It is for classes **LKG to 8** only. The participation through F-4 Module is compulsory for all the students.
2. **Half-yearly (F-2) Module** provides **two planetarium exposures per academic year** on half-yearly basis with support books, quizzes, tests, sky maps/moon calendars and an yearly OCAS Assessment. It is for classes **LKG to 8** only. The participation through F-2 Module is compulsory for all the students.
3. **Exploring Astronomy @ ₹ 1 per day (EA-2) Module** provides **two planetarium exposures per academic year**, show support books, sky maps/moon calendars and quiz prizes. It is for classes **LKG to 8** only. The participation through this module is optional for the students.
4. **Yearly (F-1) Module** provides **one planetarium exposure per academic year** with support books, quizzes and sky maps/moon calendars. It is for classes **Nursery to 12**. Circulars for parents will be provided to the school for distribution among interested students for their participation at any point of time during the academic year. The participation through this module is optional for the students.

The best way to teach Astronomy Science is quarterly module, i.e., F-4.

NOTE: A school can add a nominal fee in the existing monthly tuition fee structure of its students under any one of the following heads:

- | | |
|---|---|
| <ul style="list-style-type: none"> • Planetarium Education • Smart Classes • Astronomy Science Education | <ul style="list-style-type: none"> • Digital Education • Activity Charges • Science & Technology Awareness Classes |
|---|---|

The school can also prescribe the Planetarium Education™ – K12 book-series in its book-list at the beginning of new academic year.

ASTRONOMY CALENDAR

| MONTH | ACTIVITY | | |
|-----------|---|---|-------------------------|
| | F- 4 Module | F- 2 Module | EA- 2 Module |
| April | First quarterly Planetarium Show | | |
| May | Workshop for teachers | | |
| July | Classroom based test | | |
| August | Second quarterly Planetarium Show | First half-yearly Planetarium Show | First Planetarium Show |
| September | Classroom based test | Classroom based test | |
| October | OCAS Assessment (SLE Exam) | OCAS Assessment (SLE Exam) | |
| November | Third quarterly Planetarium Show | Workshop for teachers | Classroom based test |
| December | Guest Lecture by Renowned Astronomer/Science Communicator | Guest Lecture by Renowned Astronomer/Science Communicator | |
| January | Fourth quarterly Planetarium Show | Second half-yearly Planetarium Show | Second Planetarium Show |
| February | OCAS Assessment (NLE Exam) | OCAS Assessment (NLE Exam) | |

Planetarium Education™ Modules & Features

| S.No. | Features | Quarterly Module (F-4) (LKG-8) | Half Yearly Module (F-2) (LKG-8) | Exploring Astronomy @ ₹ 1 per day (EA-2) (LKG-8) | Yearly Module (F-1) (NUR-12) |
|-------|--|--------------------------------------|-------------------------------------|---|---------------------------------|
| 1. | Number of Planetarium Exposures/Shows per year | 4 | 2 | 2 | 1 |
| 2. | Shows support Books | 4 | 2 | 2 | 1 |
| 3. | Quiz Prizes per show | 4 | 3 | 2 | 2 |
| 4. | Web Support for students/teachers/parents | Yes | Yes | Yes | Yes |
| 5. | Set of 5 Astronomy Posters/Maps for each School | 2 Sets | 1 Set | 1 Set | 1 Set |
| 6. | Show Dates (as per school's choice) | Apr/May, Aug/Sep Nov/Dec, Jan/Feb | Aug/Sep Jan/Feb | Aug/Sep Jan/Feb | Once in a year |
| 7. | OCAS Assessment (Astronomy, popularly known as NAO/Science/Maths) Participation* (For classes I to X only) | Yes | Yes | Optional at extra cost | Optional at extra cost |
| 8. | OCAS Assessment Book | Yes | Yes | No | No |
| 9. | Web & Mobile Support App for online tests | Yes | Yes | No | No |
| 10. | Classroom based test in a year | 2 | 1 | No | No |
| 11. | Sky Map/Moon Calendar for each student (Free download from website/facebook) | Yes | Yes | Yes | Yes |
| 12. | Large Sundial | Yes | No | No | No |
| 13. | Guest Lecture by Renowned Astronomer/ Science Communicator | Yes | No | No | No |
| 14. | Workshop for Teachers | Yes | Yes | No | No |
| 15. | Fee Structure (per student) | ₹ 100 (monthly) (₹ 1200/year) | ₹ 60 (monthly) (₹ 720/year) | ₹ 1 (per day) (₹ 365/year) | ₹ 250 (one time) |
| 16. | Concession* (per student) | 20% (₹ 20/month) (₹ 240/year) | 15% (₹ 9/month) (₹ 108/year) | 15% (₹ 55) (one time) | 10% (₹ 25) (one time) |
| 17. | Fee applicable after concession (per student) | ₹ 80/month (₹ 960/year) | ₹ 51/month (₹ 612/year) | ₹ 310 (one time) | ₹ 225 (one time) |
| 18. | Bill in advance | 4 times | 2 times | 2 times | 1 time |
| 19. | Minimum number of participants required | 1000 | 1000 | 500 | 500 |
| 20. | Contract Period | 3 years | 2 years | 1 year | 1 year |

OCAS Assessment is only for students of classes I to X. So, participation in this assessment is not applicable for the classes Nursery, LKG, UKG, XI and XII.

* The concession is applicable for 100 schools on first come, first serve basis. The school shall retain the concession amount towards the infrastructural support and honorarium of its coordinators/teachers.

Terms & Conditions:

- Rates are subject to change without any prior notice.
- Complete quarterly payment to be made before the Planetarium Shows.
- The Company will provide the bill towards the cost of books only. Hence, no TDS liability.
- Bill for 'F-4 Module', 'F-2 Module' and "EA-2 Module" will be provided in advance on quarterly, half-yearly and half-yearly basis respectively.
- MoU Agreement for "F-4 Module", "F-2 Module" and "EA-2 Module" will be duly signed by the school authority.