



Jawaharlal Nehru Planetarium  
Bengaluru

## **PRESS RELEASE**

Jawaharlal Nehru Planetarium, Bengaluru, is organizing one-day workshop in association with *Jawahar Planetarium, Allahabad, Aryabhata Foundation, Bhopal, B M Birla Planetarium, Chennai, Swami Vivekananda Planetarium, Mangaluru, Nehru Planetarium, New Delhi, B M Birla Planetarium, Jaipur and Regional Science Centre, Srinagar* on '**Zero Shadow Day**' for students studying in class 8<sup>th</sup> and above. The workshop is scheduled on 24<sup>th</sup> April 2019 between 10:30 am and 3:30 pm. This will cover the concepts related to Zero Shadow Day such as rotation and revolution of the earth, importance of specific latitudes such as equator, Tropics of Cancer and Capricorn and measurement of local time.

Observations made in various places are shared and using this data student calculate circumference of the Earth, diameter of the Earth, speed of Earth's motion at Bengaluru's latitude.

Interested students may please register before 23<sup>rd</sup> April 2019 at the office. Registration is on first come first served basis.

Further details may be obtained from Jawaharlal Nehru Planetarium on  
2237 9725 / 2220 3234 Or

visit our website:

<http://www.taralaya.org/announcements.php>



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## **PRESS NOTE**

### **Zero shadow day**

On April 24, at noon the sun will be exactly at zenith due to this there will be no shadow. This will be demonstrated at 12:17 hrs at Jawaharlal Nehru Planetarium. It requires no special gadget to see this effect; any pillar will have no shadow.

On June 22, the sun will be at the northernmost point at tropic of Cancer - this is called summer solstice or *Dakshinayana*. The sun, then retraces the path towards south. Again on August 19, the sun will be exactly at zenith in Bengaluru. Thus the shadow at noon can be zero only on two specific days in a year for places between the Equator and the Tropic of Cancer. The dates vary from place to place.

### **Special Programmes on ‘Zero Shadow Day’**

- One-day workshop for the students of high school and above between 10:30 am and 3:30pm
- Demonstration of Zero Shadow using five models
- Observing surface features of Sun through special telescope
- Observing projection of Sun’s image