

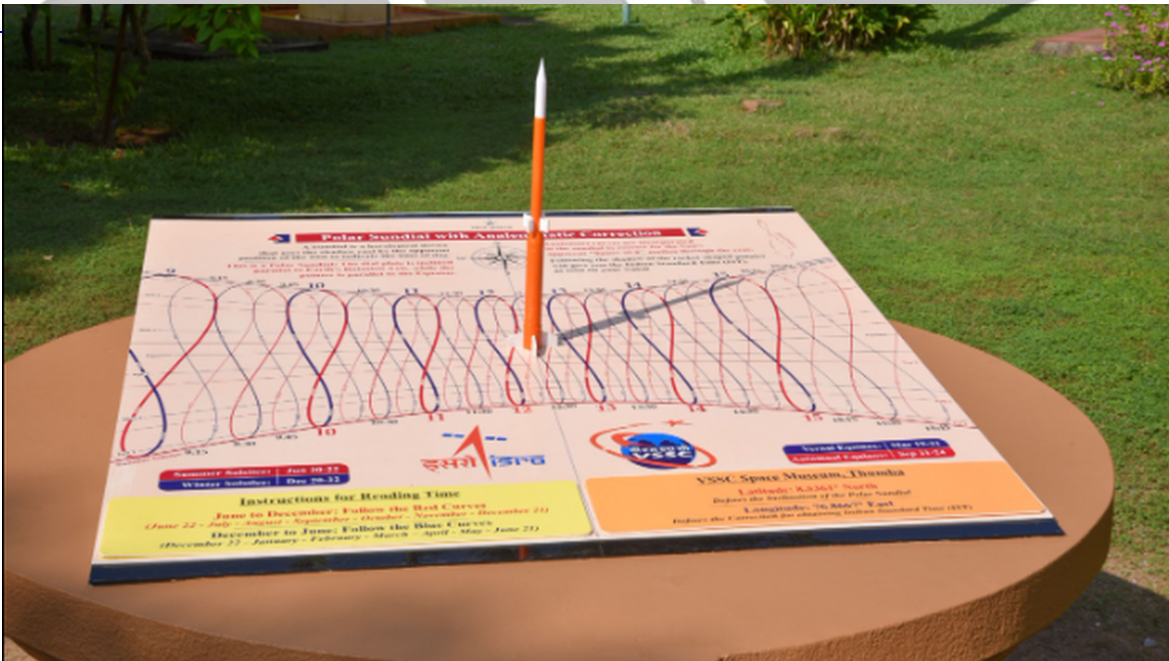


Polar Sundial at VSSC

[Source:TH](#)

Recently, a polar [sundial](#) designed by the [Vikram Sarabhai Space Centre \(VSSC\)](#) has been showcased in the 'Rocket Garden' at the **Space Museum in Thumba, Kerala**.

- This sundial serves as an **educational tool**, demonstrating [complex astronomical concepts](#) in a visually engaging manner.
- **Key Features:**
 - The sundial features **analemmatic correction**, allowing it to **accurately display [Indian Standard Time \(IST\)](#)** and the date.
 - Unlike conventional sundials, this sundial **replaces straight hour lines with inverted analemma curves**, automatically **converting local solar time to mean solar time** throughout the year.
 - The **analemma correction** is based on the **figure-eight pattern** made by the **sun** in the sky over the course of a year, caused by **Earth's tilt and elliptical orbit**.
 - The sundial is designed with a **polar configuration**, where the **sundial plate is aligned parallel to the [Earth's polar axis](#)** and affixed to a wedge-shaped structure **based on the latitude of Thumba**.
 - The sundial features a **1.6 ft tall, 3D-printed miniature of the [Rohini series RH200 sounding rocket](#)**.



Read More: [Vikram Sarabhai Centenary Programme](#)

PDF Refernece URL: <https://www.drishtias.com/printpdf/polar-sundial-at-vssc>

