

Important Space Missions

1. GAGANYAAN

mission is the first unmanned mission of the Indian Space research organization. ISRO will carry first uncrewed mission under Gaganyaan in 2023. India will send 3 male Astronauts and 1 female robot in the next manned mission.



2. Shukrayaan

Mission to be launched in 2024 by ISRO. The main objective is the Investigation of the surface processes. Solar wind interaction with Venusian Ionosphere, and studying the structure, composition and dynamics of the atmosphere.



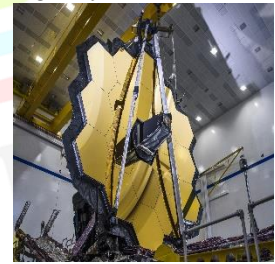
3. **DAVINCI** + Mission will be launched by NASA in 2029. It will understand the composition of VENUS.



4. **Gagan Navigation** system launched by INDIGO. GAGAN project objective is the study of the ionospheric behaviour over the Indian region.



5. **The James Webb Space Telescope (JWST)** is NASA's infrared flagship observatory. An international collaboration between NASA, the European space agency (ESA), and the Canadian Space Agency (CSA).



6. **'Surya Nutan'** is a stationary, rechargeable, and always kitchen-connected indoor solar cooking system that works on a hybrid mode. It is capable of running both on solar and an auxiliary energy source simultaneously.
7. **PARKER MISSION:** NASA's Parker Solar Probe (PSP) has now flown through the

Sun's upper atmosphere the corona and sampled particles and magnetic fields there.

Launched in 2018, the PSP is part of NASA's Living with a Star program to explore aspects of the Sun-Earth system that directly affect life and society.

It became the first spacecraft in history to touch the Sun.



ADITYA L1 mission:
Launched using the Polar Satellite Launch Vehicle (PSLV) XL.

L1 is 1.5 Million Km from the Earth. It helps in tracking Earth-directed storms and its observation on sun.



- Aditya-L1 Mission:** India's first solar mission planned by the Indian Space Research Organisations (ISRO). Earlier the mission was named as Aditya 1 which was limited to observing only the solar corona. Later ISRO planned to place the satellite in the halo orbit around the Lagrangian Point (L1).