

# PROBA-3 MISSION

The Indian Space Research Organisation (ISRO) successfully launched the PSLV-C59/PROBA-3 mission on December 5, 2024. This mission is a collaboration with the European Space Agency (ESA) to study the solar corona.

## MISSION FOCUS:

**STUDY THE SUN'S CORONA, THE OUTERMOST LAYER OF ITS ATMOSPHERE.**

## LAUNCH VEHICLE: PSLV-C59.

**INITIATIVE LED BY NEWSPACE INDIA LIMITED (NSIL) AND SUPPORTED BY ISRO.**

- **PROBA-3 MISSION IS THE 61ST FLIGHT OF PSLV AND THE 26TH USING PSLV-XL CONFIGURATION**

## UNIQUE FEATURES

### PRECISION FORMATION FLYING:

- **First-ever mission to deploy precision formation flying technology using two satellites:**
  - **OCCULTER SPACECRAFT (200 KG).**
  - **CORONAGRAPH SPACECRAFT (340 KG).**

## INSTRUMENTS ON BOARD

- 1. ASPIICS (ASSOCIATION OF SPACECRAFT FOR POLARIMETRIC AND IMAGING INVESTIGATION OF THE CORONA OF THE SUN): A CORONAGRAPH WITH A FIELD OF VIEW SPANNING THE SUN'S INNER AND OUTER CORONA.**
- 2. DARA (DIGITAL ABSOLUTE RADIOMETER): MEASURES THE SUN'S TOTAL SOLAR IRRADIANCE (TOTAL ENERGY OUTPUT).**
- 3. DEES (3D ENERGETIC ELECTRON SPECTROMETER): ANALYZES ELECTRON FLUXES WHILE PASSING THROUGH EARTH'S RADIATION BELTS.**

