

# **Satellite Technology Day 2024**

**Source: ISRO** 

#### Why in News?

U R Rao Satellite Centre (formerly known as ISRO Satellite Centre (ISAC)), Department of Space, in Bengaluru recently celebrated **Satellite Technology Day (STD) 2024**, marking the significant milestone of the **50**<sup>th</sup> **anniversary of India's first satellite launch, Aryabhata**, on **19**<sup>th</sup> **April 1975**.

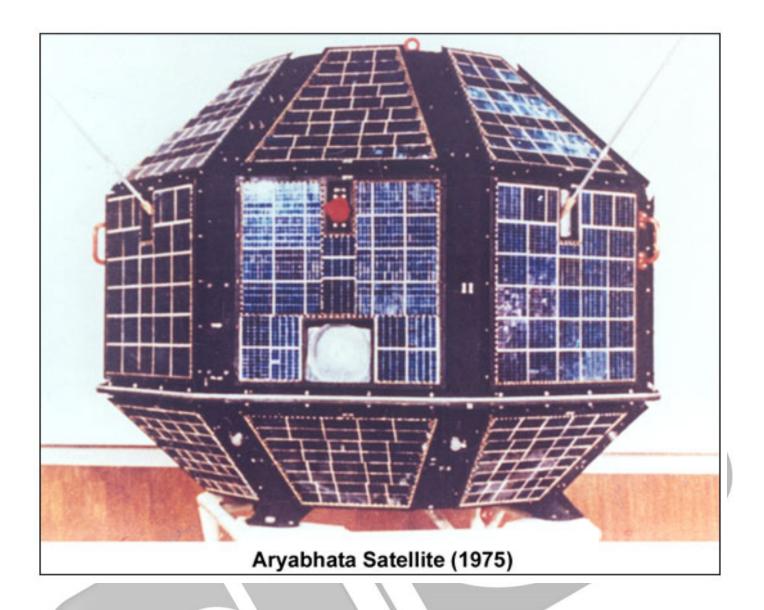
 The event highlighted URSC's achievements along with recent missions like <u>Chandrayaan-3</u>, <u>Aditya-L1</u>, and <u>X-ray Polarimeter Satellite</u> which garnered national and international recognition.

## What are the Key Facts About Aryabhata Satellite?

- The Aryabhata spacecraft, named after the 5<sup>th</sup> Century CE mathematician and astronomer, was India's first satellite. It was completely designed and fabricated in India and launched from Kapustin Yar, Russia on 19<sup>th</sup> April 1975.
  - On that day, India became only the world's 11th nation to send a satellite into orbit.
- Aryabhata was built by the <u>Indian Space Research Organization (ISRO)</u> to conduct experiments in X-ray astronomy, aeronomics, and solar physics.

Aryabhata Satellite	
Payload	X-ray Astronomy Aeronomy and Solar Physics
Launch site	Volgograd Launch Station (presently in Russia)
Launch vehicle	C-1 Intercosmos

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### **U R Rao Satellite Centre**

- U R Rao Satellite Centre named after the former ISRO Chairman **Dr. Udupi Ramachandra Rao**, it is the lead centre of the ISRO responsible for design, development, checkout & integration of communication, navigation, remote sensing, scientific and small satellite missions.
- URSC is actively involved in creating cost-effective space infrastructure for India.
- The centre is responsible for the total Spacecraft project management from the Conceptualisation phase to In-orbit spacecraft operationalisation phase.



#### **UPSC Civil Services Examination Previous Year Question (PYQ)**

# Q. With reference to India's satellite launch vehicles, consider the following statements: (2018)

- 1. PSLVs launch satellites useful for Earth resources monitoring whereas GSLVs are designed mainly to launch communication satellites.
- 2. Satellites launched by PSLV appear to remain permanently fixed in the same position in the sky, as viewed from a particular location on Earth.
- 3. GSLV Mk III is a four-staged launch vehicle with the first and third stages using solid rocket motors; and the second and fourth stages using liquid rocket engines.

Which of the statements given above is/are correct?

(a) 1 only

- **(b)** 2 and 3
- (c) 1 and 2
- (d) 3 only

Ans: (a)

#### Q2. Consider the following statements: (2010)

#### The satellite Oceansat-2 launched by India helps in

- 1. estimating the water vapour content in the atmosphere
- 2. predicting the onset of monsoons.
- 3. monitoring the pollution of coastal waters.

#### Which of the statements given above is/are correct?

- (a) 1 and 2 only
- **(b)** 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Ans: (d)

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