

## Artemis II Mission

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### Why in News?

*NASA's Artemis II crew has arrived at Kennedy Space Center as final preparations proceed for the first crewed lunar mission.*

- **Mission name** - Artemis II.
- **Mission type** - Crewed lunar flyby (translunar loop and return).
- **Crew Size** - 4.
- **Launch vehicle** - Space Launch System (SLS).
- **Launched by** - National Aeronautics and Space Administration (NASA).
- **Launch Site** - Kennedy Space Center, Florida.
- **Crew capsule** - Orion.
- **Scheduled to launch on**-April 1, 2026.
- **Mission Duration** - 10 days.
- It will be the *first crewed mission* to the Moon's vicinity since Apollo 17 in 1972.
- **Primary objective** - Validate crewed operations, life-support, navigation, communications, and re-entry systems in deep space with humans aboard.
- **Technical and Operational Details**
- **Trajectory** - Orion will follow a "hybrid free-return trajectory," looping around the Moon and using Earth's gravity to pull it back home.
- **Distance** - The crew will travel roughly 4,700 miles (7,600 km) beyond the far side of the Moon, making them the humans who have ventured farthest into deep space.
- **Deep-space Testing** - Life-support and environmental control, radiation monitoring, deep-space navigation and communications, Orion heat-shield performance under crewed re-entry conditions.
- **Risk and contingency** - Abort modes, alternate splashdown sites, search and rescue coordination and medical evacuation protocols.

### References

1. [News on AIR | Aretmis II](#)
2. [Indian Express | Artemis II](#)

