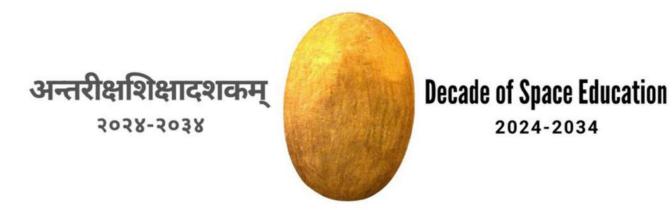


Contact Program Website - iarf.res.in/artemis



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based on objectives of



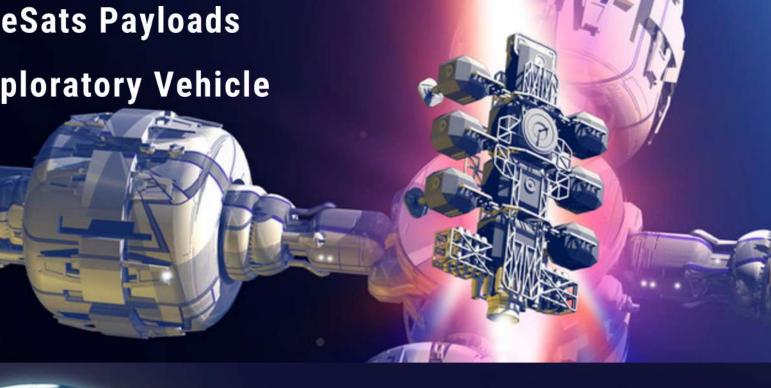
in support of

ARIBINA MISSION

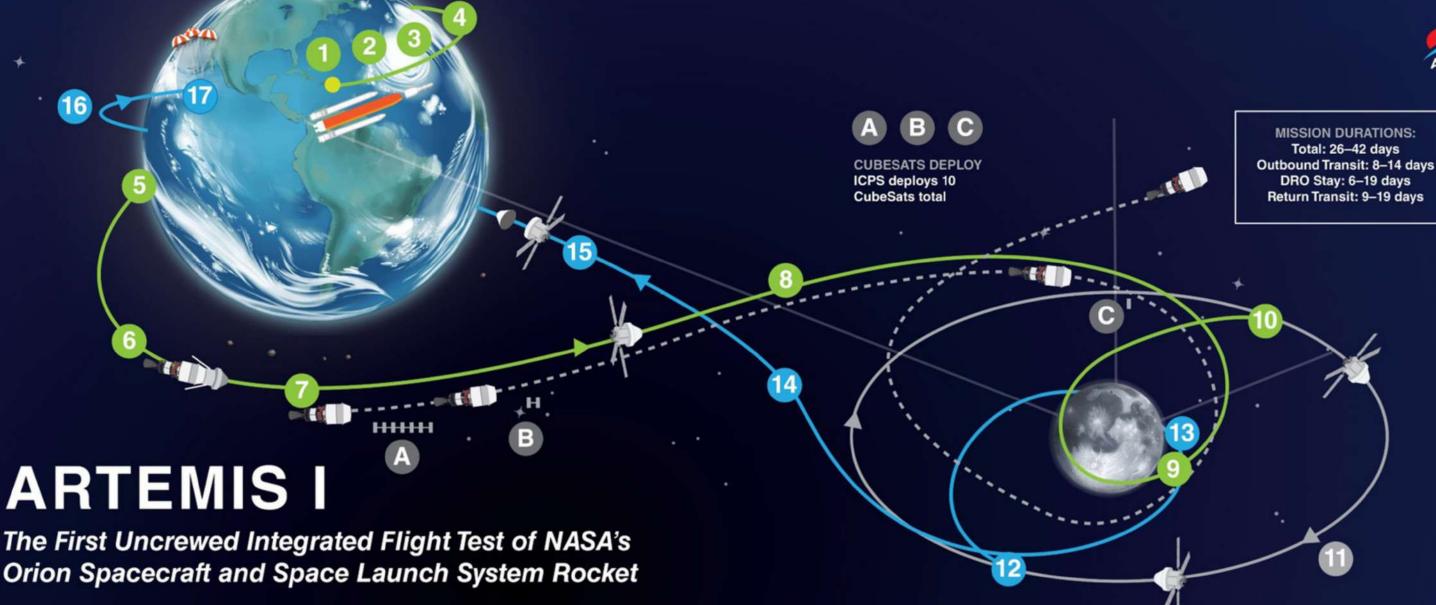
TOPICS

NASA's Space Launch System Skyfire & CubeSats Payloads









The First Uncrewed Integrated Flight Test of NASA's Orion Spacecraft and Space Launch System Rocket

- SLS and Orion lift off from pad 39B at Kennedy Space Center.
- JETTISON ROCKET **BOOSTERS, FAIRINGS, AND** LAUNCH ABORT SYSTEM
- **CORE STAGE MAIN ENGINE CUT OFF** With separation.
- PERIGEE RAISE MANEUVER
- **EARTH ORBIT** Systems check with solar panel adjustments.
- TRANS LUNAR INJECTION (TLI) BURN Maneuver lasts for approximately 20 minutes.
- INTERIM CRYOGENIC PROPULSION STAGE (ICPS) SEPARATION AND DISPOSAL **ICPS** commits Orion to moon at TLI.
- **OUTBOUND TRAJECTORY** CORRECTION (OTC) BURNS As necessary adjust trajectory for lunar flyby to Distant Retrograde Orbit (DRO).
- OUTBOUND POWERED FLYBY (OPF) 60 nmi from the Moon; targets DRO insertion.
- LUNAR ORBIT INSERTION **Enter Distant** Retrograde Orbit.
- DISTANT RETROGRADE ORBIT Perform half or one and a half revolutions in the orbit period 38,000 nmi from the surface of the Moon.
- DRO DEPARTURE Leave DRO and start return to Earth.
- RETURN POWERED FLYBY (RPF) RPF burn prep and return
- coast to Earth initiated.
- **RETURN TRANSIT Return Trajectory Correction** (RTC) burns as necessary to aim for Earth's atmosphere.
- CREW MODULE SEPARATION FROM SERVICE MODULE
- ENTRY INTERFACE (EI) Enter Earth's atmosphere.
- SPLASHDOWN Pacific Ocean landing within view of the U.S. Navy recovery ship.



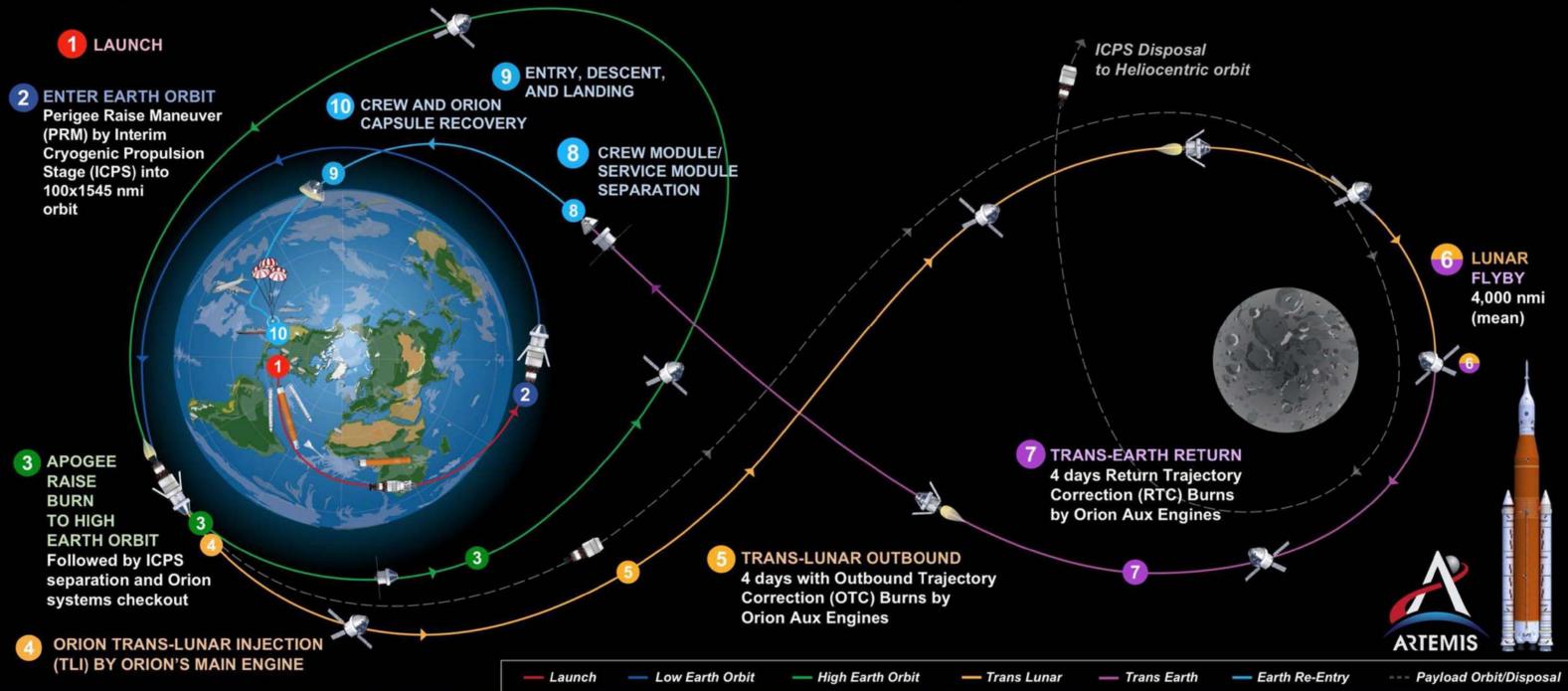
ARTHUS 2 MISSION

TOPICS

Orion Life Support Systems
Asteroid Redirect Mission
Lunar Flyby by Astronauts

ARTEMIS II

Crewed Hybrid Free Return Trajectory, demonstrating crewed flight and spacecraft systems performance beyond Low Earth Orbit (LEO)



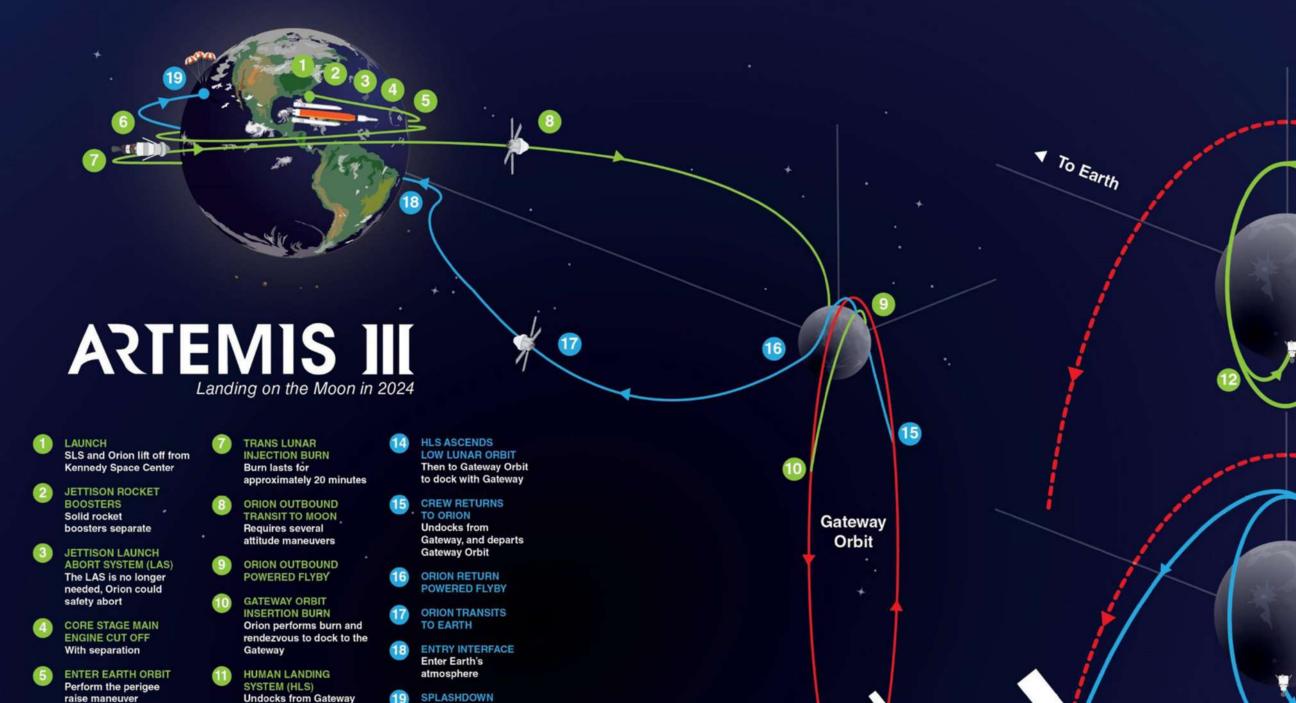
TOPICS

Lunar Human Spaceflight

Lunar Gateway

Credit: NASA

Lunar Terrain Vehicle



Pacific Ocean landing within view of U.S. Navy

recovery ships

HLS ENTERS LOW

Descends to lunar

During lunar surface

LUNAR ORBIT

EARTH ORBIT

panel adjustments

Systems check and solar

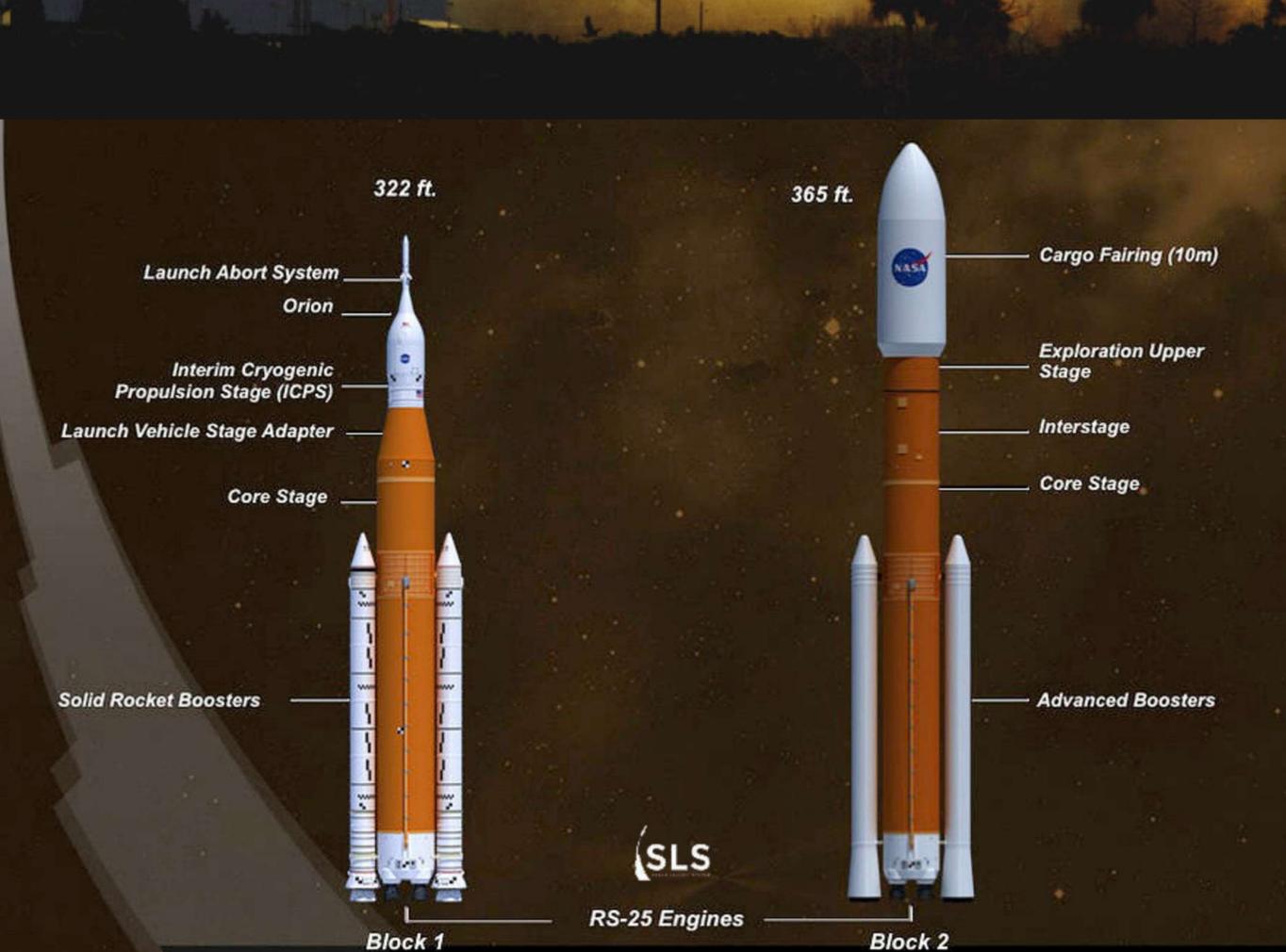
National Aeronautics and Space Administration

ARTEMIS MOONBASE

TOPICS

Credit: NASA

Deep Space Exploration Systems
Starship Human Landing System
Artemis Moon Base Camp



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TOPICS

Human Martian Exploration

Mars Transit Vehicle

Orion Multi-Purpose C

ARTEMIS PREPARES FOR MARS

Expanding the range of surface exploration and ISRU demonstrations

Gateway augmented with international habitat for increased capabilities

Foundation Surface Habitat and Habitable Mobility Platform delivered to complete Artemis Base Camp

Expanded habitation capability added to Gateway to enable Mars mission dress rehearsal at the Moon

Mars mission dress rehearsal with longer in-space and surface durations

Testing landing and ascent capabilities

Lunar Terrain Vehicle

Foundation

SUSTAINABLE LUNAR ORBIT STAGING CAPABILITY AND SURFACE EXPLORATION

MULTIPLE SCIENCE AND CARGO PAYLOADS | INTERNATIONAL PARTNERSHIP OPPORTUNITIES | TECHNOLOGY AND OPERATIONS DEMONSTRATIONS FOR MARS



ARTEMIS SPACEJOBS

TOPICS

Earth-Moon Economy

Artemis driven ISRU

Credit: NASA

#ArtemisGeneration Jobs & Career

IARF-led NASA Artemis Space Contact Program

Benefits

01

02

International Certification

Participants can earn a prestigious certification to enhance their exposure to latest of space industry.

Exclusive Artemis Content

Access to state-of-art learning platform and content especially designed for the contact program.

03

04

Competitive Edge

Participants gain a competitive advantage in your academic pursuits with specialized space program knowledge.

Space Career Guidance

Exposure to Artemis driven space career paths and opportunities within the dynamic field of space exploration.

05

06

Certification to Institutes

Decorate your institute with coveted certifications to further enhance its academic standing and prestige.

Plaque of Honour

Coordinators / Institute can be eligible for medals. Select Institutes can win the coveted Plaque of Honour.

IARF-led NASA Artemis Space Contact Program

How to Coordinate

01

Become a Coordinator, apply at iarf.res.in/artemis

On receiving your application through a google form, you will be assigned a Faculty Coordinator Code.

03

Give List of participants in Program Excel Form

You may also collect fee and neft total fee to us or we can provide an institute specific payment link.

05

Examination

Course has 4 modules and 12 chapters, it unfolds over 4 weeks. MCQ exam can be taken on completion.

02

Enrol Students for Space Contact Program

Promote by sharing posters sent to you as part of the Promo Kit (Level 1: School and Level 2: College / Educators).

04

Access Given to participants on receiving fee and form

Within 72 hours of students will receive emails with login credentials to access the learning platform.

06

Certificate & Medals

E-Certificates will be shared with faculty coordinators.
Select performers may receive medals.



Designed & Supervised by: Pushkar Ganesh Vaidya, Scientist, Indian Astrobiology Research Foundation (IARF)



School / College can win a special commemorative IARF Decade of Space Artemis Plaque of Honour

BENEFITS FOR PARTICIPANTS

Participants / Institutes get:

International Certification for Students
Exclusive Artemis Content
Academic Competitive Edge
Exposure to Space Careers
Prestigious Certification to Institutes
Plaque of Honour

UNIQUE & ESSENTIAL PROGRAM FOR STUDENTS & EDUCATORS

This unique & essential contact program is part of Decade of Space Education (2024-2034), whose aim is to prepare students from across disciplines for the fast-developing **US\$ 1 Trillion Space Economy jobs and careers**.

OVERVIEW OF MODULES

ARTEMIS ACCORDS

Global Partnerships for Space Exploration 2030 and Beyond

ARTEMIS MISSIONS

First human landing on Moon in 21st century, first woman on Moon

ARTEMIS TO MARS

Lunar Gateway, Human base on Moon, Landing on Mars and beyond

ARTEMIS CAREERS

High paying Jobs from Lunar economy for all academic disciplines

PROGRAM DETAILS

Mode: Online in English | Course Code: NSCO1 (Level 1 to Level 3)

Duration: 1-2 months, self-paced Exams: MCQ, Grades awarded

Contact Program Website: iarf.res.in/artemis

Don't Miss Out, Register Your Institute Now, WhatsApp on: +9198701 59911

Note: This Space Contact Program is offered by ICSC-IARF. It can meet NAAC | NBA | NIRF | BCI | API Index | MOOC | Elective Credit criterion (for colleges). Further, for government operated municipal schools in India, this program is offered at no cost.



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to participate, contact