



Access to Space for All Initiative



*The goal of the **Access to Space 4 All Initiative** is to provide research and orbital opportunities for UN Member States to access space and to ensure that the benefits of space, in particular for sustainable development, are truly accessible to all*

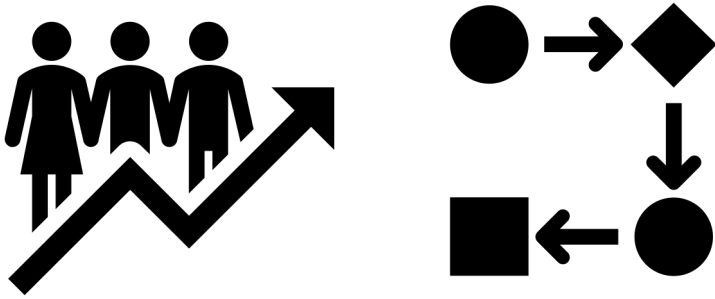


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FOR OUTER SPACE AFFAIRS

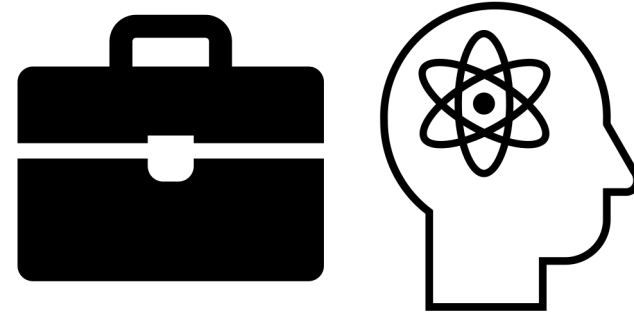




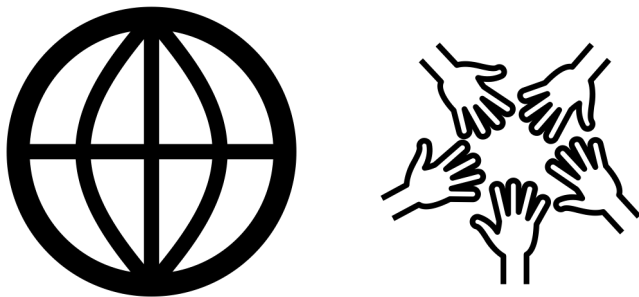
Access to Space for All Initiative



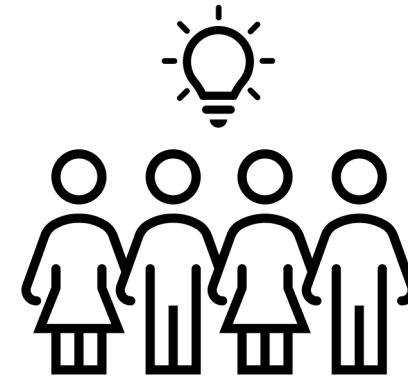
Hands-on Capacity from A-Z
Responsible & Sustainable Way



Provides cutting edge skills for
jobs and other opportunities



Fosters international cooperation



Social Impact: To your country,
region and young generations



Access to Space for All Initiative



Space is relevant to the SDGs!

The 2030 Agenda for Sustainable Development <https://sdgs.un.org/2030agenda>

To learn more about the SDGs go to <https://sdgs.un.org/goals>

UNOOSA SDGs page

<https://www.unoosa.org/oosa/en/ourwork/space4sdgs/index.html>



Access to Space for All Initiative



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Office for Outer Space Affairs

Goals

4

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

← Prev Next →



Target

4.4

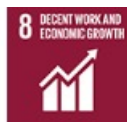
By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship

Goals

8

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

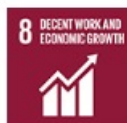
← Prev Next →



Target

8.2

Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors



Target

8.3

Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services

Goals

9

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

← Prev Next →



Target

9.1

Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all



Target

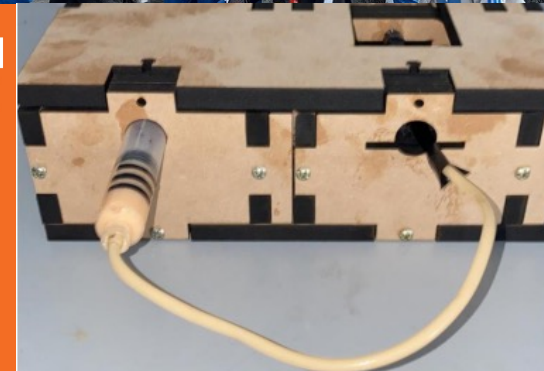
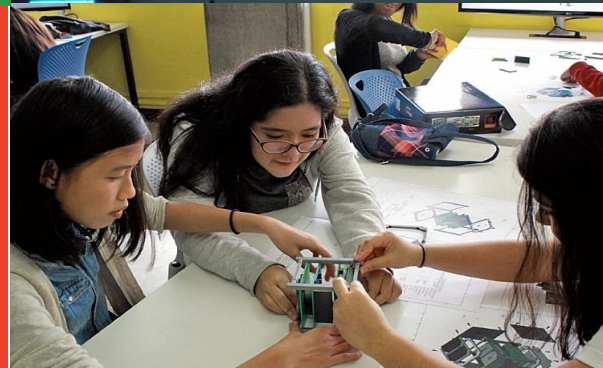
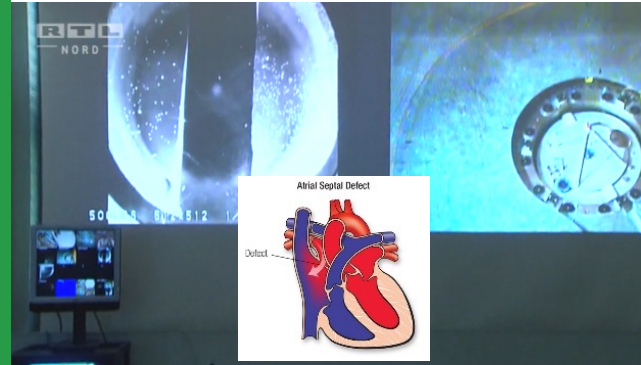
9.5

Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending



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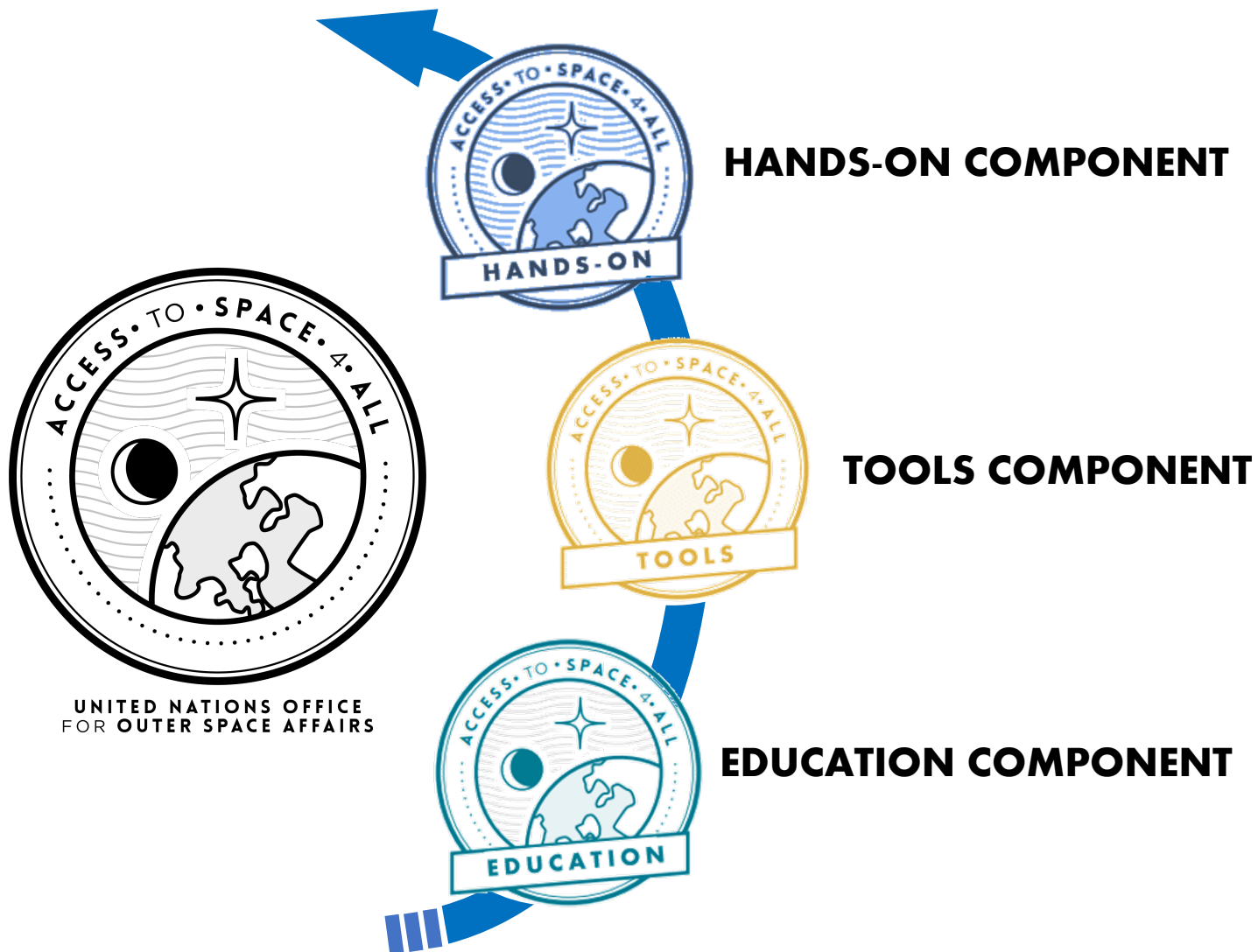




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OPEN!
HyperGES
28 Feb 2022

OPEN!
KiboCUBE
31 Dec 2021
PNST
10 Jan 2022

Hypergravity/Microgravity Track

Aims at building capacity for conducting experiments in orbit.



5 hands-on opportunities, both on-ground and on-orbit



List of open software tools in preparation



Dedicated series of webinars, Teacher's Guides...

Satellite Development Track

Aims at building capacity that enables the development, deployment, and operation of small satellites



2 hands-on opportunities, deployment from both the ISS and launcher



List of open software tools in preparation



Dedicated series of webinars, Fellowships...

Space Exploration Track

Aims at broadening the engagement in space exploration



1 hands-on opportunity on astronomy/debris monitoring



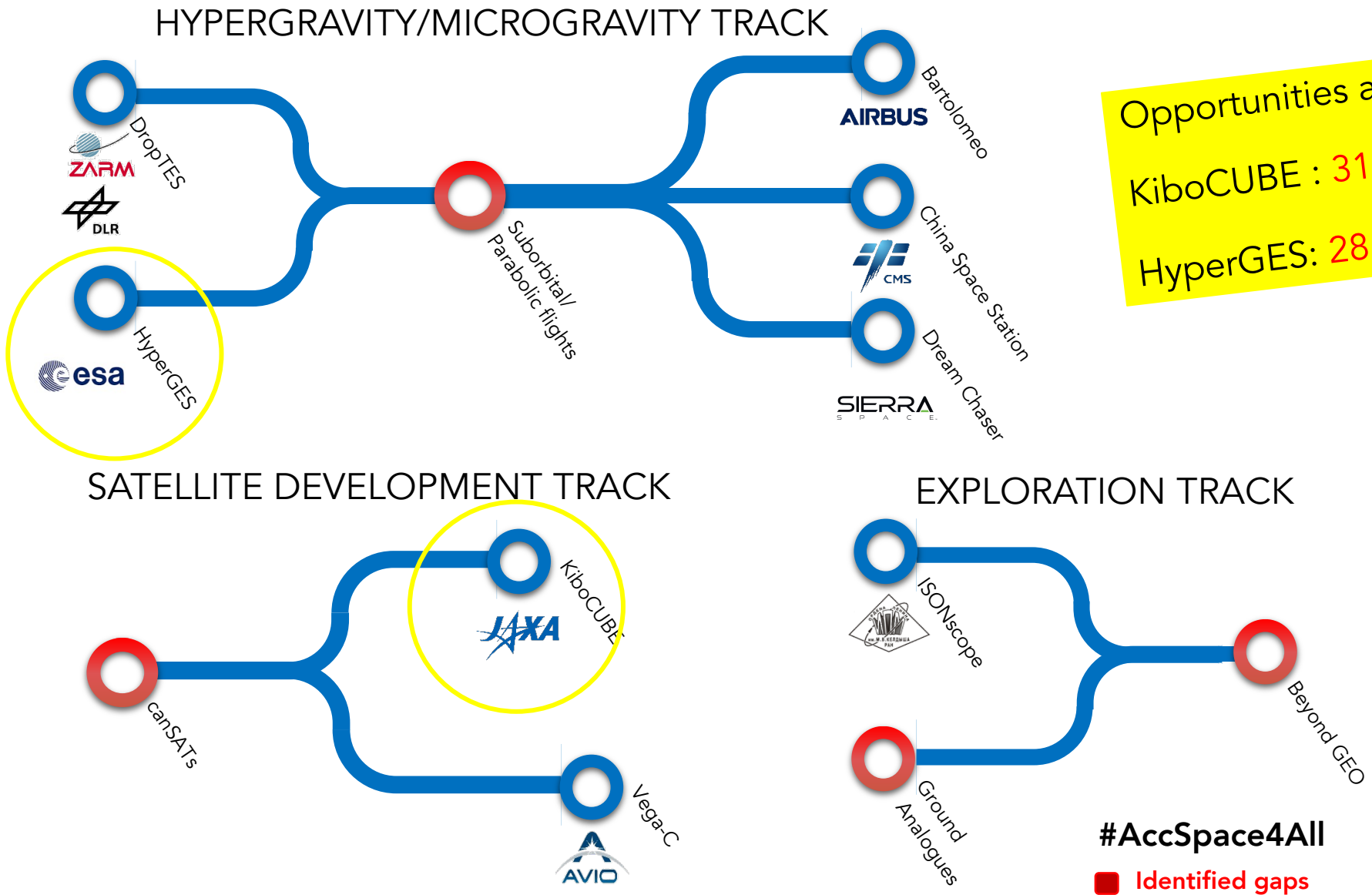
List of open software tools in preparation



Webinars, Workshops...



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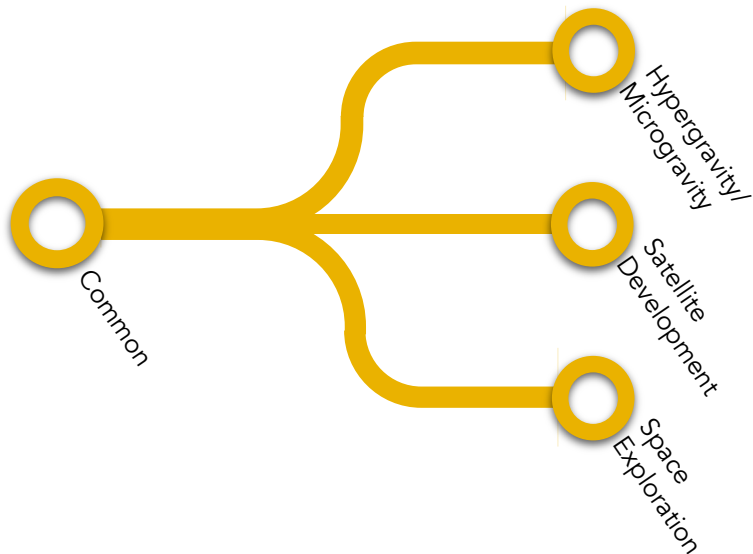


Opportunities are OPEN!
KiboCUBE : 31 Dec 2021
HyperGES: 28 Feb 2022

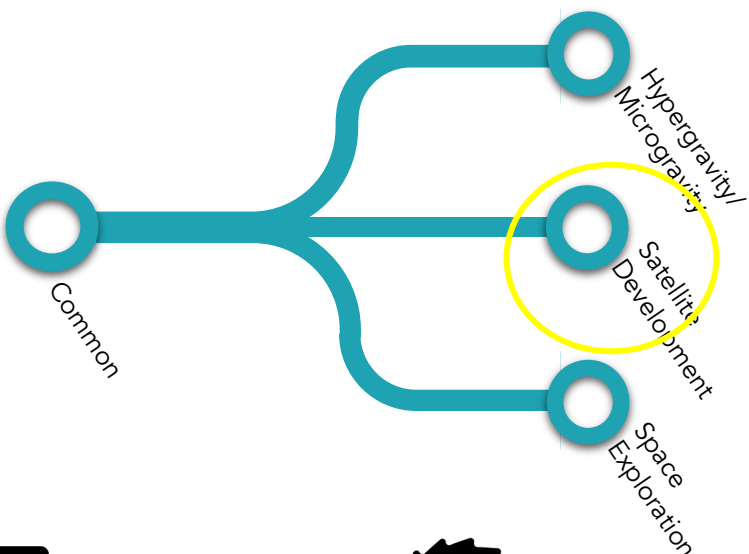


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TOOL COMPONENT



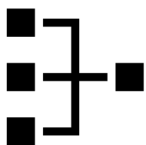
EDUCATION COMPONENT



Fellowship is
OPEN!
Post-graduate
study on Nano
Satellite
Technology
(PNST)
: 10 Jan 2022



Design



Planning



Calculation/
Analysis



Validation
/Testing



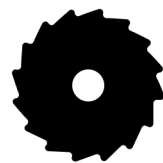
Webinars



MOOCs



Curriculum



Workshops
/Training



Teacher's Guides



Fellowships



Access to Space for All Educational Content



“KiboCUBE Academy”

Partnership



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Supports JAXA for KiboCUBE Academy



Season 1

- KiboCUBE Academy has been put together to provide theoretical knowledge to develop, operate and utilize small satellites.
- The first season of KiboCUBE Academy was conducted from 14 January - 4 February 2021 with 4 webinars. [University Space Engineering Consortium \(UNISEC\)](https://www.unoosa.org/oosa/en/ourwork/access2space4all/SatDevTrack_Webinars.html#Tag1) provided support throughout the lectures.

The links to the presentations/recordings of KiboCUBE Academy Season 1 can be found in the below;

https://www.unoosa.org/oosa/en/ourwork/access2space4all/SatDevTrack_Webinars.html#Tag1

4 QUALITY
EDUCATION





Access to Space for All Educational Content



“KiboCUBE Academy”

Season 2

- On Demand Lectures <Starting November 2021>

Series of 21 lectures (1 hour per lecture)

- Live Lectures <November/December 2021>

Live lectures provided by university professors from UNISEC

Global Register from: <https://forms.office.com/r/hwRcjU7m9w>

Date	Title	Contents of Lectures
Thurs 4 Nov 13:00- 15:00CET	CubeSat Technologies	1-1. CubeSat Technologies 1-2. System Integration of CubeSats 1-3. Q&A
Thurs 18 Nov 13:00- 15:00CET	Launch and Operation of CubeSats and Related Regulations	2-1-1. Launch and operation of CubeSats 2-1-2. CubeSat Related Regulations 2-2. CubeSat Operation 2-3. Q&A
Thurs 2 Dec 13:00- 15:00CET	Introduction of CubeSat Projects and Online Tour of Environmental Test Facility	3-1. Introduction of CubeSat Projects “BIRDS” 3-2. Online Tour of CubeSat Environmental Test Facility 3-3. Q&A

- Technical Consultation <November/December 2021>

Deadline Extended to 7 Nov! One to one consultation with applying teams and UNOOSA/JAXA/UNISEC. See details here: https://www.unoosa.org/documents/pdf/psa/access2space4all/KiboCUBE/AcademySeason2/KiboCUBE_Academy_Season_2_Details_updated.pdf

No.	Contents
1	Introduction to Small satellite mission and Utilization
2	CubeSat for Capacity Building
3	Introduction to CubeSat Project Management
4	System Engineering for CubeSat
5	Introduction of J-SSOD and Safety Review process
6	CubeSat design for safety requirements
7	Introduction to CubeSat technologies
8	Subsystem Lecture for CubeSat (Power control system)
9	Subsystem Lecture for CubeSat (Communication system)
10	Subsystem Lecture for CubeSat (Command and Data Handling system)
11	Subsystem Lecture for CubeSat (Structure system)
12	Subsystem Lecture for CubeSat (Mechanism system)
13	Subsystem Lecture for CubeSat (Thermal control system)
14	Subsystem Lecture for CubeSat (Attitude Control System)
15	Introduction to CubeSat Environmental Testing
16	Orbit Dynamics of CubeSat
17	Introduction Operation technics and ground system
18	Introduction Payload for CubeSat
19	Satellite operation and Related Regulations (ITU etc.)
20	Space debris problem and Countermeasures
21	Lessons & Learned for CubeSat mission



KiboCUBE



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How to apply to the 7th Round

Find the documents at

https://www.unoosa.org/oosa/en/ourwork/access2space4all/KiboCUBE/KiboCUBE_Rounds.html

! PLEASE READ!!!!!!

- Announcement of Opportunity
- CubeSat Mission Application Template
- **JEM Payload Accommodation Handbook**
- Guidance on Space Object Registration and Frequency Management for Small and Very Small Satellites



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Our Work > Access to Space for All

KiboCUBE Rounds

OPEN FOR APPLICATION (7th Round): from 15 July to 31 December 2021

<NEW> Detailed Webinar for 7th Round Application

15 September 2021 10:30 & 16:30CEST Register from [here](#).

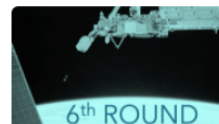
7th ROUND DOCUMENTS

- [Announcement of Opportunity \(.pdf\)](#)
- [CubeSat Mission Application template \(.word\)](#)
- [JEM Payload Accommodation Handbook \(.pdf\)](#)
- [Guidance on Space Object Registration and Frequency Management for Small and Very Small Satellites](#)

REFERENCE MATERIALS

- Video: "Deployment from Kibo" (provided by MEXT/JAXA)
- [Technical Presentation by the Japanese Delegation](#): At the 58th Session of the Committee on the Peaceful Uses of Outer Space
- Webinar materials: See [KiboCUBE main webpage](#)

Previous Rounds



This round was opened in December 2020 and closed at the end of June 2021. UNOOSA and JAXA are currently going through the selection process.

[read more >](#)



This round was opened in March 2019 and closed at the end of September 2019. SICA, the Central American Integration System has been selected as the awardee. SICA's CubeSat "Morazan-Sat" is currently under development, seeks to be a proof of concept for the development of a UHF/VHF communication platform. It will prove the capability of monitoring weather variables on-site using UHF/VHF radio packets, and once the mission is finished, with the help of radio amateurs, the capabilities for UHF/VHF emergency communications using Automatic Package Reporting System (APRS) will be tested.

[read more >](#)

Our Work

Secretariat of COPUOS
Programme on Space Applications
UN-SPIDER
International Committee on GNSS
UN-Space
UNISPACE+50
Space Law
Benefits of Space
Space4Health
Access to Space for All
Space for Persons with Disabilities
Space4Youth
Space4Water
Space4Women
World Space Forum
Worldwide Space Agencies
Capacity Building Activities

Thank you!

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