

39th Virtual UNISEC-Global Meeting

Theme: "UNISEC-Global Activities"

University Space Engineering Consortiun

NIHON

VERSIT

CLTP 12 briefing session

Nazgul Kaliyeva

AI-Farabi Kazakh National University, Kazakhstan

CLTP 12 Graduate

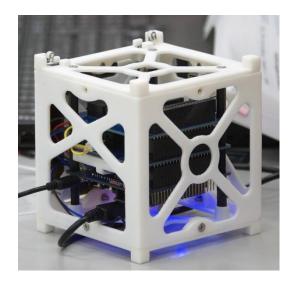
December 16,2023



CLTP 12 was organized in Nihon University(Chiba, Japan) and AOTS (Tokyo, Japan)

Preliminary online-Lectures: July 17- August 20, 2023

Date: August 21 - September 1, 2023



Toolkit: HEPTA-Sat (Hands-on Education Program for Technical Advancement)

The training consists of a hands-on learning steps with CubeSat type classroom satellite kit.

It is equipped with six primary subsystems:



The goal of Training

- to have participants experience how a system is composed of elements and sub-elements, to understand the relationship between the whole system and elements;
- to acquire a thorough understanding of System Engineering and Project Management in order to realize large and complicated systems;
- To increase understanding and create knowledge through experiencing sharing, verbalizing, deduction and internalizing in a knowledge Management Based System

Campus tour

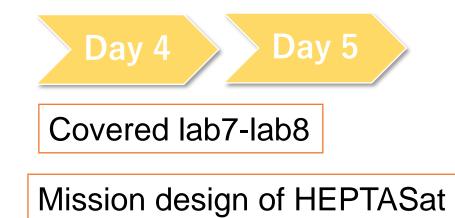




Covered lab0-lab6

- Introduction
- •Electric power subsystem
- •Command & data handling subsystem
- •Sensor subsystem
- Communication subsystem
- •Structure subsystem





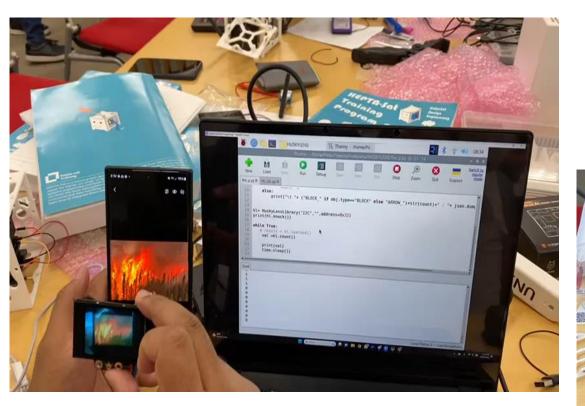


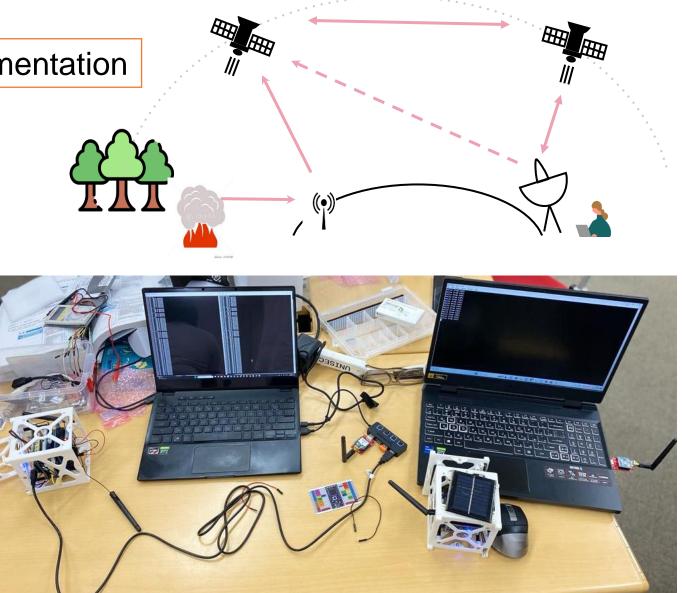




Covered lab7-lab8

Mission implementation





Covered lab7-lab8

Mission result presentation

9. Experimental Result

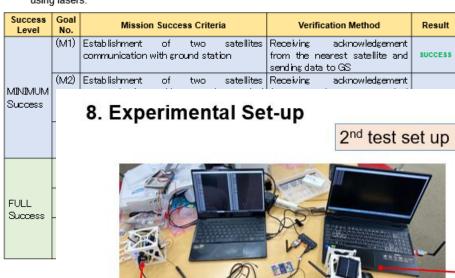
Sat 2



Sat 1

Summary of Success Evaluation

 The communication test verifies whether GS and Sat can communicate with each other using lasers.





Abdulla Hil Kafi, Nazgul Kaliyeva,

1. User Needs/Background

NOAA series satellites (AVHRR radiometer wit)

and EOS (Terra and Aqua with MODIS radior swarth of 2 330 km) used for fire detection.

Each of these satellite systems allows for ope

with data acquisition at least 6 times a day (NO)

a day (EOS series satellites).

Hari Ram Shrestha, Fred Joe Nambala

/eva,

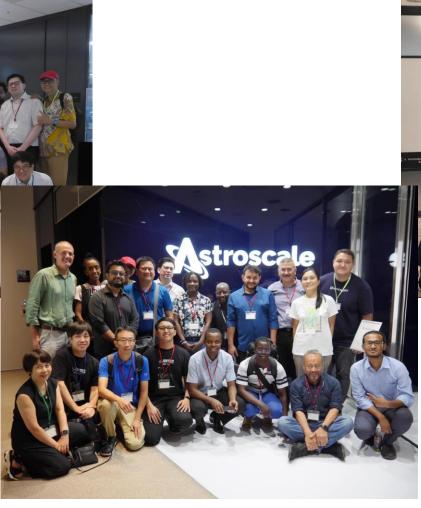
FHANNY-SAT



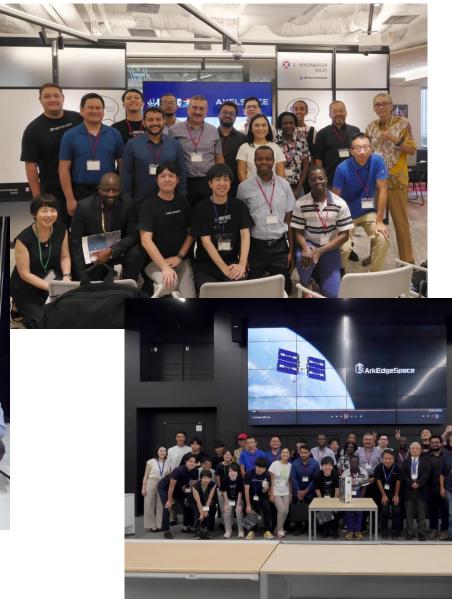
Visit Japanese space companies



Day 10







Covered lab9

Teaching practice

Day 11



ArkEdge Space, IHI Aerospace, IHI corporation, Japan Manned Space Systems Corporation, NEC, Hatta Yamonoto Propolsion Engineering and Research and other



Thank you for your attention!

