





# **25th Virtual UNISEC-Global meeting**

# Theme: "Impacting space through capacity building activities"

**CLTP 11 briefing session** 

Nursultan Doszhan

Al-Farabi Kazakh National University, Kazakhstan

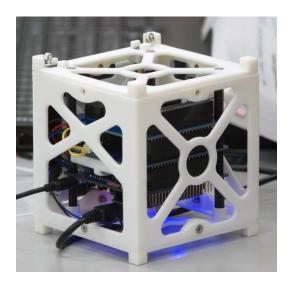
CLTP 11 Graduate

September 17,2022

CLTP 11 was organized in Nihon University(Chiba, Japan) and AOTS (Tokyo, Japan)

Preliminary online-Lectures: August 1-15, 2022

Date: August 18-31, 2022



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

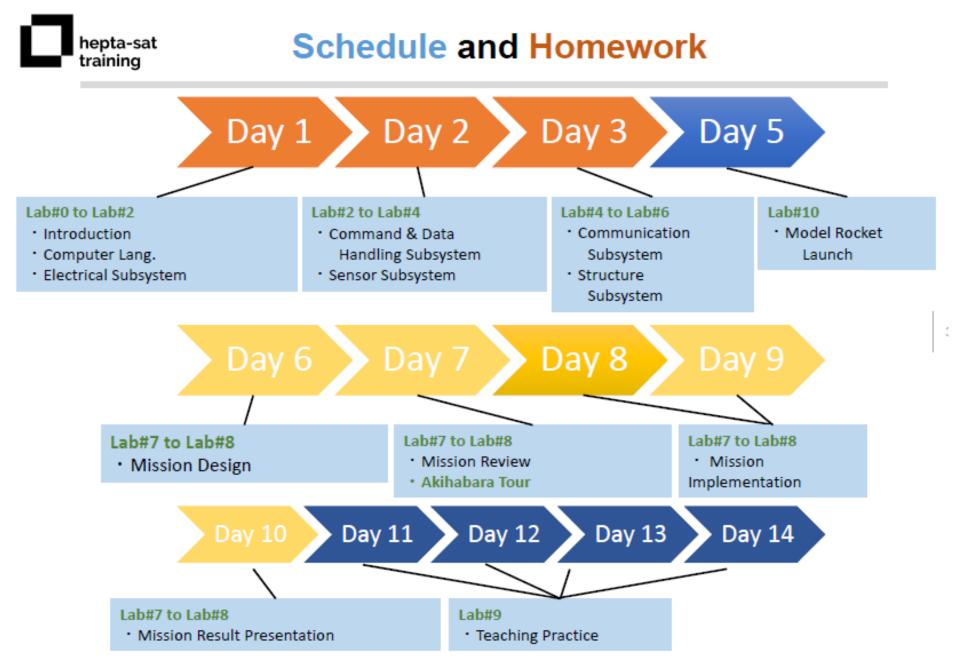
The training consists of a hands-on learning steps with CubeSat type classroom satellite kit.

It is equipped with six primary subsystems: .



### 7 main steps have been completed!



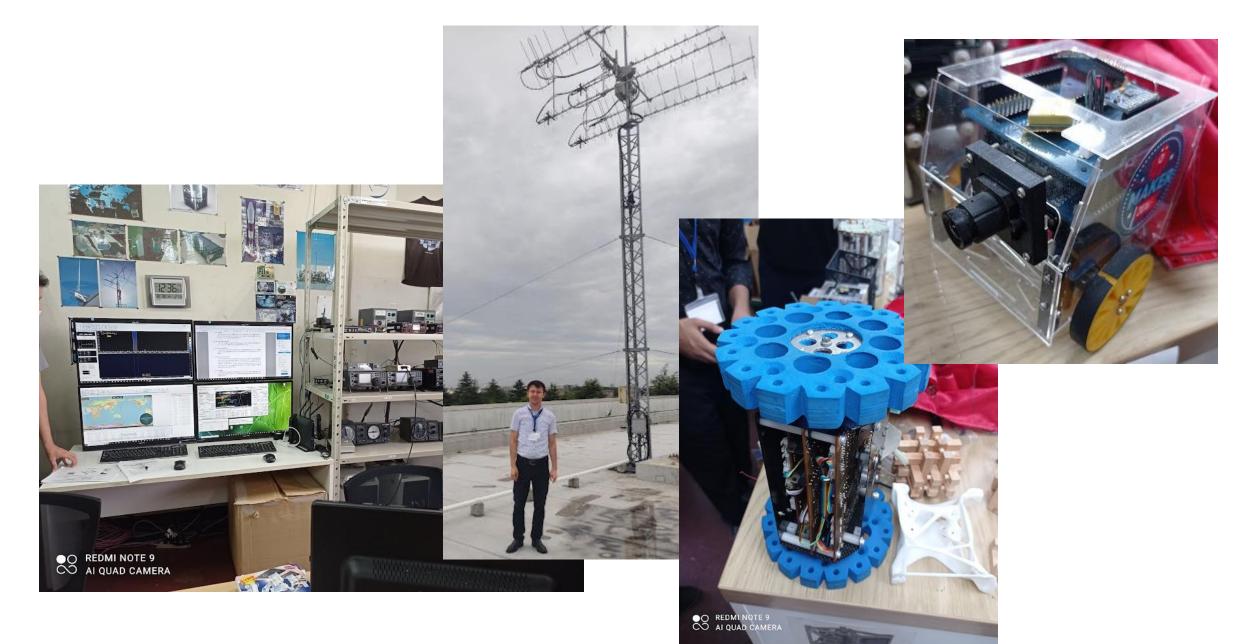


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# **Self-Introduction & team building**



# **Nice campus tour**



Started working with HEPTA-Sat





#### Covered lab0-lab6

- Introduction
- •Electrical subsystem
- •Command & data handling subsystem
- •Sensor subsystem
- •Communication subsystem
- •Structure subsystem



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#### Model Rocket Launch with CanSat



#### First launch failed!

Second launch was successful and finally our rocket get 90 m altitude!



Covered lab7-lab8

# Mission design of HEPTASat







# **Akihabara tour**

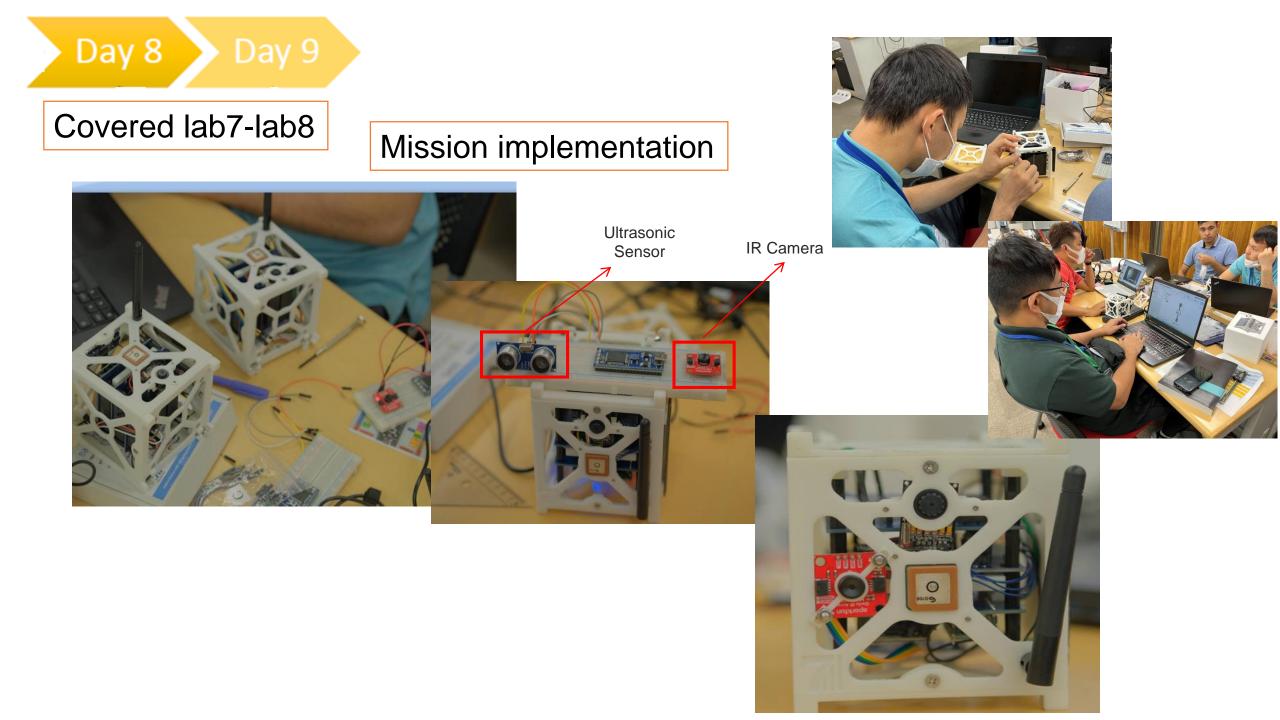
Covered lab7-lab8

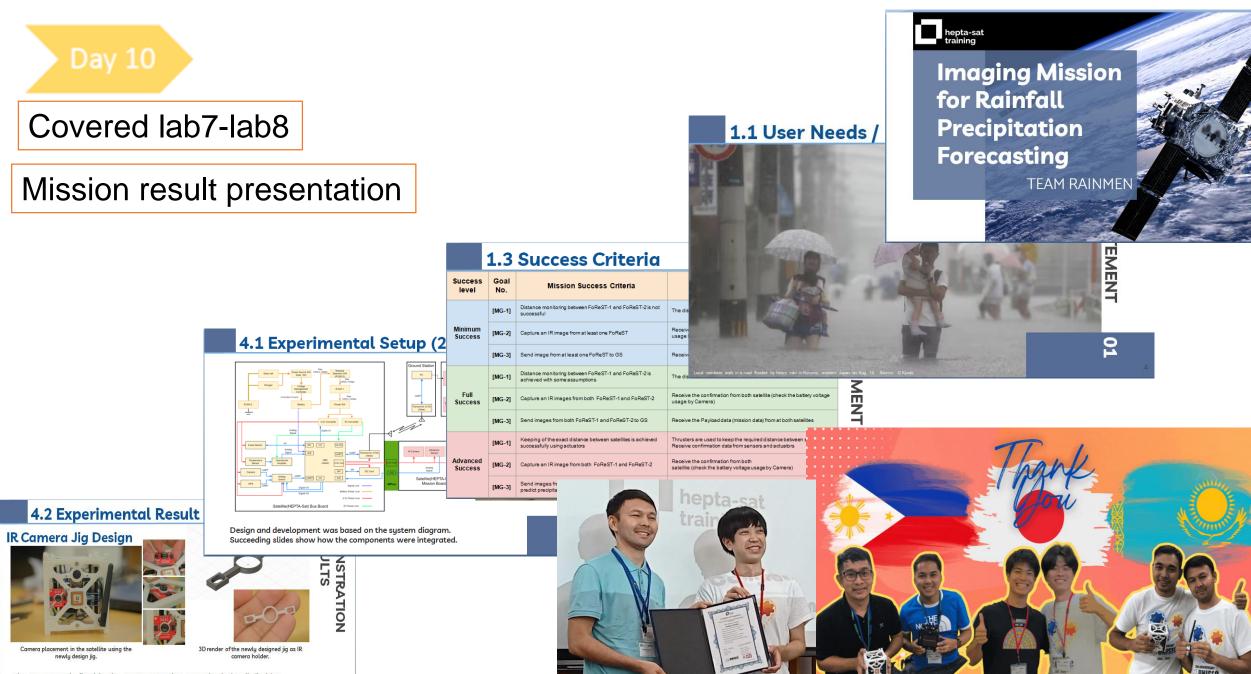




We bought some mission components







TAKUMI

SATO

JOHN RYAN

DIZON

MARK ANGELO

PURIO

**KENTARO** 

NAKAIZUMI

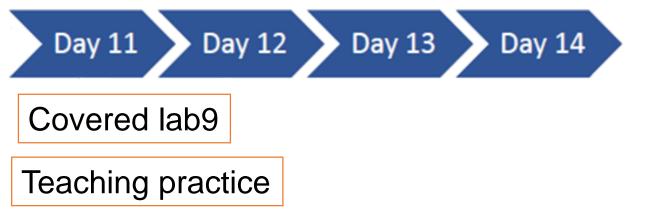
ALISHER

ERBOLULY ADEN SAGYNAIULY

NURSULTAN

The IR camera is fixed in the Hepta-Sat using a newly design jig/holder mounted using bolts and nuts. Camera position was chosen so that it is located at the same face location of the RGB camera and the connector pin headers do not interfere with the internal parts.

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Axelspace, IHI Aerospace, Sky Perfect JSAT, JSOL, NEC, Space Systems Development Corporation





# Thank you for your attention!

